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3. MALS: PROFESTION AND MANAGEMENT

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¹ For a complete discussion of the plant-load alements as related to the plant, see Stoneti, E. J., '868 Contilions not Peach Corrells, Complex 11, pp. 30-40 from York Usy. 22 editions, 1804.

4 SOLES: PROPERTIES AND MANAGEMENT

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4. Abundance of plant-food elements. — Enving considered the plant-food elements, expectably these of plantey importance, it is of interest to uste their distribution in the mother crust. Clorks's "entires the composition of the little-plant, which makes up 37 per cent of the houses torraction uniter, as billower—

*Clarks, F. W. Data of Gentlemistry. II. & Cool. Survey, Bel. 494, p. 38. 1511.

6 SOILS: PROFESTIES AND WARADENEST

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Ignams	Sedimentary	Midatauphie
Granite	Limestone	Schiet
Sycuite	Sandstone	Continu
Dionie	Shale	Markle
Dishar:	Dolamite:	Sale
Gabbro		Quartaire
Periderita		4

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groups of neck.

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may been quartists.

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B. MALE: PROPERTIES AND MAYAGEMENT

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2. Prigiolase Mag Al₂O₃, 68O₃
2. Prigiolase Mag Al₂O₃, 68O₃, 60O, Al₂O₃, 28O₃

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7. Broker. (HK), [Mg/k-], (AFk), (SGL),
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9. September. 2 Mg/k-2 SGL,
10. Epidate. He/l. (CO.) 3 (EFG), 1, 8 KG,
11. Apolitie. 7 CO.P.G., F.C.E.S. or (Co.C.) or

When we winted then when the tent of special states in heavy of principal to an extract heavy of the extract heavy of

Calcium, so important on a basic material in soil, may be emploid to a certain naised by other minerals besides those already named—rabite, delenite, and gyroum being perhaps the most important, especially the calcium. schools in Alber the explaints on the sameplant form. Hency of which is a still such set spit, but form. Hency of which is a long-to-set mansaction and belonged starting. The low of the set around a side approach is the object of the set when collection to the scale form which it species. Set a proposed, when yellow the control of it mostle is protocol, and the part definition is a posted relations to the set of the set

institute from when adjusted in modellers and hydration. Modeller in a synthesis of the characteristics and it would be not be considered to be of constructed insuperators in most days or day haves. It is almost devely represent in their na foregated in them. Model and the collection, within our hydration course; their their hydration distribution articles conject eighthy, soften, and problems, are used by the out product of and shows and therefore an unsurintary asserts and days and therefore an unsurintary asserts and days and themselves or all self-station, particularly adjusted and formation or all self-station, particularly and day any super for earth does to distribute in higher-food sout days agree for earth does to distribute in higher-food south and any superior for earth does to distribute in higher-food south and the self-station and the self-stat

held by them in physical and election reministrates.

7. Relative absolute of months — ITO bigs y 'presents the following while we are result of his colorabilism on the distribution of certain university in the certain crust :—

			Per	m	tiga	Preventage
Ribu	173				8	Cuburates 1
Querte	,	,			35	Homblende, sagite, etc. 1
Mica			,	,	8	All other miscrels 2

*Hol. A. D. The Soft, p. 15. Nov York City. 1907.

This agrees in general with the electrituding of these

This agree in grand with the delibration of these intends in the earth's orders and accounts for their universal pressure in all subs.

3. Organiza matter, "The others is a fixed security for all the releasest of plant-food obtained from the said energy clopes, which, as already forchood, is found very largely locals top in partial and other mine-press-cessed. This international contents of the contents of the matter of the contents of the c material. The iteraporation of organic matter in any sell, either by natural or by artificial mean, besides tasting to better its physical condition who envices training to better like physical confirms who enriches to its bettal, or grow, nitrogen content. Though this ex-genic matter it as accessary in a feedle well, by solidition and thereigh comparation correct late in the pieces and other cryanisms the organic compounds are also by sim-plified, were compounded are solid all soil alwayers in in-tendent and the sea buildest marking a mirrice, which is use of the principal forces in which is may be used by related enriches and the seal. plants growing in the soil.

pants growing in the soil.

3. The will said the plant.— Observed from the agri-cultural standards, thus, the will becomes smely a medium for evap production. Its composition, both mineral and organic, is of wital importance in the fortherunivest, and again; not oftail amportance in the forther-sace of early a use. All the physical, chemical, and biological squides become directed toward this end. The stody of the soil and a letter and establing of like function will allow the great them of innervence met unity to increase their crops, and consequently their proving but at the sparse time to assertion and or as possible the featible, characteristic and the similar of the possible of the featible, consequently and an experience of the continuous consequently their proving the featible. power, but at the same time to assistion are for an possible the fertility of one prosteet radiated resource. A estimate study of the soil should ultimately lead to a study of conservation in its bearing both to prosent prosperity and to the veiling of protectity.

CHAPTER II

BOIL FORMING PROCESSES

AFTER the first proper estimate of the relations between ANTER the first proper commission the resulted between the copy and the end, the next step in forward the mode of add formation and the agendes conversed. As might be expected, thus in a econfinated problem from the fact, that most recise are so historyomens in their composition. The question becomes still further involved because of the many factors that are continually functioning in rock The special colories del service areasine beader of the enterpolarize the areasine plearized; in the change later, the same of the initial colories of the order uses, and this protein of the initial colories of the order of the change of the initial colories of the order of the change of the cha

*Not a complete themselve of weathering, see Mourel, G. P. Books, Stock Weathering, and Sola. Now York. 1800.

very supplied and affects the most his had reliable, whether leight. Hancer, from the first had been protable reliable. Hancer, from the first had had been million for every provide on the first mer limit in beingly inclusional in montaining the first of this metallic in paymen will present the first of their metallic first paymen will present the proper form and only in radio that the product point of an outlier to the first the true reliable leight a court learner against present. This challenties way be much existent two leads, medianted and function, as follows:—

Forms of restlaring

Mechanical changes, or disintegration
 A. Erwise and Amolation
 Weter, wind, its
 B. Temperature
 Heat and self, and front
 C. Plants and annuals

II. Chemical changes, or Secomposition A. Ordalism and earborates B. Denidation

C. Hydration D. SaluSen

It Wite—The three great agreeder of creation and characters are water, which and line. They are indermental and why in the translate great of mode like all and improving the company of attention, they are supposed and improving, with demanding daths are very graph when these of more pulsagical possible. It is estimated that for Dubber States to those placed allows at the next of the Dubber States to those placed allows at the next of own that it seem handwood and entire press. Their and only to the Character Chara The water, in order to be a successful criting upont, must be laden with ardiment, so that its carrying proof largely determines its power of conous. In other wards, it must be arried.

Date the time when the windress level show an action and they be thought with a creater and statuses at the layer desirates and they desirate that the act was the acquest in nortice of which that the acts, pushed the Ministry Here is moving the everyth of their posent done to chain for modifical their posent done to chain of a condition of Mod in the count done of their second that the chain for modifical the source and the chain for modifical two securities of the source and the desirate of their conditions of the count of the count of the chain for the count of the chain of the chain of the counter of the chain of their status and register of the chain of their status of their status of their status of their status of the chain of their status of their s

The West - The wind on a self-training speed law, like wort, too phases of salice—cone and temperature. Decoration were the temperature of the self-training self-training

the adobe of the Stational one their origin, at least portfully, to the corping power of wind at a time when ariting existed over all this zero.

12. Non-Where in large bodies, as in glaties, ice

It has "Mine is hery below, as it gloves, he can be treated as produced by the control of the co

front, or the decid bloss, were funcional with beavy nationals for distriction in other region.

13. Heat not coid.—The charges in temperature of the six and the sole and recks front needly he suggested the effect of the decorating agents. Constant expansion and meteories in productive of residence and utformer playing the receiver of the control of the charge of receivers. Heat in control of both playing received in the control of the control of and consent expansion or controlline. Bucks, as already noted, are smally missed aggregates, and then missends very in their conditions of expension. With every shade of the equilibrium of expensions, official solvens are set of special distribution and produce is considered deals. While a single produce is considered deals, which are also when the content they give a paintenance in the first relative to the matter. Then relevant and when they content they give a painting these of information and expension of the received proof in the content of the paint of the content of paymins. Online of an internal to make the proof of the content of paymins on 1000 of a in the class of the first of matter of paymins. Online of a inch. The servers of heavy ship is the in much be remembered that their natural continuous in payment on the payment of the content of the c

A type—Gent with the state of a slight charge of temperature, to delete loose may full memperature outs a paper. The files have the sale of first. The meth and control which by the star of all of the The meth and control which by the star of all of the Third has the star of the sta

must result must desatrantly to the physical modifiem of the next. This action of final is by no mass conplete when the next is fined mechanically no and, but in continued on the soil itself. Such fastlers foring in allow gradest importance in bettings the physical contiient of the sal, we in would originate an avertage and drying and fensing and tharing process. It is to such knew, more than to say other action, that the future cover the next that it is a such as a contract of the first of every term of the first of.

seems the part this of his red.

M. Porth and existent.—Parks and sarrish mettheir from with time shouly mentioned to brig parts of their from with time shouly mentioned to brig parts of the red parts of their parts. Die the mentionistic method in consistent distriction, and transparates. The agent medtion of the red parts of their parts of the time of a still. Steep lastic, an associate their time of a still. Steep lastic, an associate their time of a still. Steep lastic, an associate their met of a still. Steep lastic, an associate them, and developmentally associated and cause and bequerate and locating effect. They shan settle still, they become a still parts of the steep lastic and order. They are the steep of the steep lastic and order. They are the steep lastic and the steep of the steep of the steep lastic and the steep of the steep of the steep lastic and the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the state of the steep of the steep of the steep of the steep of the state of the steep of the st providing better circulation of air and water. This beings about a desper and more effective action of the other physical agencies of weathering. Darthronne motive similar effects. Their looks provide changes passince similar crosses. Their noise periode samiles for ready distinge, and large quantities of soli are brought in the surface yearly by them. Durwin estimates that this passines to as much as now or two inches in a

dende 16. Oridation and exchangion. The physical and 16. Ordetties and exchanation. The physical and chemical forces to that show, but an append direc-cretion in their efforts. Then are not all testions after and numbers the office. Searchy has the distripation of a note brough the place to design against in a box apparent. Of the chemical forces establishes in smally, equivally now the nation of the early, the first to be added. It is promptibly maniforded in make carrying. iron, and coasists in such a change that the added coygen may be accommodated. Notifies madily success hand become crisies, while these state crisies are proue to take up coygen to their fullest extent. This ministers is dis-dissed by a discolaration of the rock, which is first streaked and stained with irre coits but at last charged to a nuffern other. The charge may be excapilled by the following reactions: -

 $\begin{array}{l} 2\,\text{FeS}_{a} + 7\,\text{O}_{a} + 4\,\text{H}_{a}\text{O} - 2\,\text{FeS}) + 4\,\text{H}_{a}\text{SO}_{c} \\ 4\,\text{FeS} + \text{O}_{b} - 2\,\text{FesS}_{c}\text{O}_{c}\text{(cell)} \end{array}$

While tot all the understeened contain four, crosses of them the tot all the winners to must make. The because make (\$600, being soluble, to waited out and the root is married and countried. A way is now open for non-security layers of the chair of them.)

With the contains action there is also the intersect of

carbon disable (CO₂), which is noticeasily a constituent of air and is a protect of the decaying wegetable matter present in most sole. This necess that the vatic of-culting among rock fragments, especially those of a real, is heavily thinged with the composed. The curbonation may be illustrated as follows.—

 $\begin{array}{l} 2 \, \text{NeS}_{k} + 7 \, \Omega_{k} + 4 \, \text{H}_{2} \Omega + 2 \, \Omega_{k} = 2 \, \text{FeCO}_{k} + 4 \, \text{H}_{2} \Omega_{k} \, \text{sr} \\ 3 \, \text{Ne} \, \Omega H + C \Omega_{k} = N \, \epsilon_{k} \, \Omega_{k} + H_{k} \Omega \end{array}$

17. Describing — respect, it is a appoint renefin to solidate. — Benthelon is an appoint renefin to solidate, being a law of oxygen either to the six or to same other compand. With hemsite it night take place articliers. —

1860 O = 486

bles some destinis, kovere, i is not a very contain faste; since a social regionale size of since a social regionale social since a social regionale social size fitty sed selected, it is not so and wheath of show the serves proved to come. It peoply destined eith or in sel very this is tenure and currying copiest social region read by the order grown and in sulphy monitored by the chiefspread of him and region colors, invisible, the chiefspread of him and region colors, invisible, the chief is the tip of the region of him and region colors in selection. Since a should have been a selection of the ferrithment of the chiefspread of the colors and the color of the colors of the colors of the colors of the chiefspread of the chief of the chief of the colors of the chiefspread of the chiefspread of the colors of the colors of the colors of the chiefspread of the chiefspread of the chief of

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 $2\operatorname{Pol}\Omega_k\left(\operatorname{red}\right)+3\operatorname{H}_k\Omega=3\operatorname{Pe}_k\Omega_k,3\operatorname{H}_k\Omega\left(\operatorname{pellow}\right)$

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SI MAIN PROPERTIES AND MANAGEMENT

by showing the various stages that orthodose may undergo in producing a residual day:—

 $KASS_{i}O_{i} + HOH = RASS_{i}O_{i} + KOH$ $1 KOH + CO_{i} = E_{i}CO_{i} + H_{i}O$ HAISO_e - 2SO_e = DAISO_e (ksolicite)

The sities in this case may become quarte or collected

The files in this can may become quarts or calculations, on what is care problem, on, what is easier witholds, may make the centers to predict manyless bylanded adiantees.

If A present interested or wardering.—The quinties on the ventioner is complicated because one can demonstrate the considered where. All forces can acting tagestor, which was desiring the protocology good complied or desiring and suches action. No amount of explanation or specialism can ever fully claimly the question as to the famoution of a self-from a percet rock. Nevertheless, knowing in general the separate forces and reactions produced, we may formethe equivast were and necessary presence, we may return-hate the phononours in a general and appendial way. The change that a work undergoes in the formation of a ratified slay or fact a physical location phononous memo-posited by clearlist changes, which contain in the hybri-tion of the follower, the redshirm of the iron, and the nature and exchanges of the middle horse.

21. Partors effecting weathering.—It is readily to be seen that the activity of the various agencies of weathering will be modified by certain factors which determine not only the kind of rick decay but also its rate. Of nat only the kind of rack deary but also its rate. Of thee, chroate is probably of the prestest inportance. The difference in the resultanting in our self-region are compared to study in a kend region will informs this point. Under self-conditions the physical forces will declinate and the resulting soil will be counce. Prescring and thursing, hast and only, the selfice of the wind, and the off of a strong, will be short the only each install strong increes from our zone well and reporting the fill space will be surely. Charlest deep end temporary for the fill space will be surely the charlest product will be for our law matter flowids. The expectate matter will be for our law matter flowids. The expectate matter will be the our depth and the charlest described the matter of the strong o

one to distortial interaction and opcomes must subsulty refere to the important. Now yearlies of the studies of the must be supported in a set will determine the kin that all the mid-of-dense. He has not in replace the contract of the reference of the reference

The secture of the rook is also a factor. Other things long again, a country equal line rook will disintegrate and decompose more rapilly than one of four goin. The course the grain, the larger the amount of intentifial

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Matter, S. Beltine of Rankels Defenced Notes, Jahr. 14 Georg, S. Beltine of Rankels Defenced Notes, Jahr. 14 Georg, P. W. Dan of Geodesinstey, D. R. Seel, Strong, Rel. 300, p. 81. 100. 1 Entering. A. Sei-Mally of Philodope. Excitor in Clear Report Seer. S. Sei-Mally of Philodope. Excitor in Clear Report Seer. See Seer. 14 George See. The next-step is to deduct some general for which can

The section is in the least two proof to which as for the parts in parts of the the section of the residual, this attented with all moderally to the saling of parts of the section significant parts of the section, that is the section of the shade section of the section of the shade one sight is of a securition of the shade section of the section of the shade section of the section of the section of the shade section of the section of the section of the shade section of the section of the section of the shade section of the section of the section of the shade section of the section of

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Olivius . . (0G/Pc)/S10.

500; and the near sard, the ten nothed to at recept." This percent law certainly should apply to nocks that we made up of the natescale lated show. One emmyle will show this clearly. The ignorus wells, as already stated, may be fiveled into two groups, and and hade:

Buchman H.O. The Remains of Review (Bay Phone long, Despris Sec., Vol. XIII, p. XII. Primary, INI.).

NO MITAL PROPERTIES AND MANAGEMENT

This addity and heating is determined by the presence of siles, and the abulic, respectively, as carried by certain essential minerals. Suppose we more some superscriptive ignorus rotes in the rate of their acting, and led some of the minerals carried by them:—

Counts . . . Querts, orthodose, and nice.
 Nulsco . . . Regiselese, arias, bentokende, or suptle
 Territorios . . Principally olivine.

It is to be seen that the unimode mutained by greate, as more residual than those social by other the dishness or projectic, while the obtaine of the last group is more the fact of the list when the unimode are invested in the

order of their resistance.

The following data? beer set the argument presented above as in the relative resistance of racke:

Proposition Annex or Party Rock Street by Non-

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Mg0			ċ		i	į	į	.40	2.29	.71
ΚÜ.		i.		·				.28	121	166
No.0								5.65	538	120
								4144	33.50	24

It is ordered, then, that the low of mineral resistance applies to rodes as sed as to the squards released, although its application theories is much more complex and difficult to interpret.

"Merril, G. 7. Berks, Sook Westlerry, and Sale, p. 861, New York. 1886. 23. Special cases of weathering, —The worthrong of gravite and financial under different offencial conclusions has already here compared. The changes that they have in these tools as they are evident on installed days and the constituted. The foliastic studyers serve, the skew as what described his laws are likely to be most actions during the process:—

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'Morril, G. P., Hal. Heel. See, Amer., Vol. 8, p. 160, 1879.
'Dillor, J. S. W. B. Geol. Burvey, Bul. 150, p. 285, 1888.

So the best of the section of the section of the section of the section is the case of the principle in terms of the principle in the case of the principle in the case of the principle in the case of the case o



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CHAPTER III

THE CHOICCICAL CLASSIFICATION OF ROLLS

Bisconnect cost be smalled authorize pickeds in also had in notion. The given the provid classes of seconds—three that have not been about for five three providing and these picked contained which the transparing species have been intersected. These has present group, despited an advancy and transparid, yet subject to resolventhic polarizors, as follows:—

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General Communication (Communication)

Water Marrier Location

Location Ward — Moleco

16. Restind edla. This group of soils coorn with strat of our make regions and coorn from many lainh of trake. Residual soils are old unit, the oldest with which we have to deal in agricultural operations. Since a

'She Tremindys, A. C. A. Caminstin of Channes Scimata. Jon. of Cod., Vol. 22, No. 4, pp. 450-456. ISS. 38

residual soil is farmed in airs, the rooks that underlie it, residual val is formed for sits, the robst that models is a formed, so we described and comparison of the code from which the sult was notably a protect. In such saids the descript his family a model of the models of the subset of the family and the family public of models that are found worthing the country rock (Fig. 3) is an area where



No. 4. The gradual transition of country work into cominal well by expellencing (4-rilly.

his relation and ceits, evolve more by meaning the guidation been not used. Excital said, brides length all as, the smalley controlled and great is been all as, the smalley consistent of the con-sistent is brailing over only provide, a very large mount of the collection has been smalled as, bridge in low light growings of the present in the collection of the collection of the collection. It is sufficient to the collection of the collection of the African Sentator, in a chief and year of the sufficient provides of the control control pro-ent in the fresh work, bleaton to the point.

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*Permen, K. & P. Jon. Rept. Gen't Survey Johannas, Tel. T. p. 192, 1930 0

che disspised is chaquel des continuities in son stable leux. The tendroy of all so his termel a coclient de qu'illen, and composit foir question, des des qu'illen, and composit foir question, his cere rant, a cannon corportion. This dees no supply in his producité, bout many delle relace boats demand intention par le destruct explaig pour la faire la faire, bout many des produces and pour in him no delle qui leuxens. The expair maniform, not destruct de production and pour in him no delle qui leuxens. The expair maniform is destructed in the contract of tendro delle tendro delle delle delle delle delle delle delle delle delle tendro delle dell

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The solid discussion of the origin and absence includes of the solid of the Carlod States, one Market, C. F., and orders. U.S. D. A., Sur. Role, Not. 16. 1981.



of fact, there is probably a greater difference in age tool power the crits of the Fredment Plateau and those of types the rate of the Pricence Tailors and these of the facts Hims force then be edged size the letter-euer borned. The sole of the Tridence Paleau law-best formed worly from pulsa and solein. In last, the Pricence Paleau is that remove at the old continues, Applicable, which was in entire to early Combine times. The rocks of the Appulations and houseful red Plateaus are Employee, sandstaur, and stales. The Grant Bates are funding, satisface, and shale. The Grant bride Rights promote introduce, anothers, and whole of the Centarius Persons, and Carbertsons ago, its-sules much unconsidered marchial. The role of those province, relating us they the owe part sees, very while with limit due to cold formation, disorder orders, and ago; "yet evides means absorbabiles, as already pointed out, one-ordition by all

27. Complete tolk — This type of aid is of a very different character from the one just under character, being made up largely of organic matter with the miscent. constitutes of namedary importance. At relatively rearnt periods shallow lakes, ponds, and basins more fected, partly by stress action, partly by assest oneneuron, party of persons across, person of passes out-ditions along out or the courts, or, what is commone in the northern part of the United States, by glocitisms, day have that contains make throughout the year stones wa place for the formation of coursine wid. The highly bounded modelme relations along the bursts and down housing motions relation study the least and clause in with starting water concerning the greater of many plants such as days, man, each, they, man, and the Bin. Then plants thirty, they are likely so yet to be created by the water in which they even greater. The water water out the wife in a large motion, prohibits made critical then, and then arte as a preservative for the manifely collect-tion, and then arte as a preservative for the manifely collectWe make the sevential are automated the quasis nature. Yes after you this year, and ye are to ye to be self-of entities nevertile bound to yet and spent. Leap shale, and not have the proper and spent. Leap shale, and not because the forest the proper and the proper and the proper and the proper and the property of th

ment or meter, or rea in manage, so was as it as: forer back.

Correlate materials may be grouped softer two books, post and smek. The only eithernow is in their stops of decay. In post the storn and leaf structure of the original plants can still be detected, and identification in quite. pante on still in control, and nontrinsium in quite pantille. In muck, however, the protectation and theary loves gone so be that the yellout finish has had in identity as such and is surged into that complicated and indefinite material called housen. The composition of peat and muck may be cough aftered by the weekingui of moreal matter from above. In some cases the beds may be from NU to NS per cond organic, while in other cases, the to Cui foreign material, the percentto may drop in us low as 15, gring a block or pressay march read,

The following analyses illustrate this companion of

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Miren			4	1.62	203	- 1
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Norther			.5	2.4	2.58	322

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1. Month Diege Char. Rey. Person, 1819. Royd. of electric, p. 189.

1. Month road - Royd. Char. Rey. Person, 1810. Royd. of electric, p. 187.

I wan der Verb. Un. 100, "Next 200, "Sept 4 Med wich vick wandly ord disposition", besser of the state of the desired, repeating 3 feet year a paid make. They are of prosted with a braidle profit of the desired, who are year worse, which we have been a profit of the state of the state profit of the desired, for the 1 to state of the Colmon way to pulse and a profit by fasts. It is also and profit on that vegens, then y the suppfield with the state of the s as a gall ameriment, and often where it is found proenough in quitity and is sufficiently large quantifies it is baselful connectable. When it matrice large screents of phospharm, as it does in some overs, it may be used as a brilliane. The following analyses have the general observator of this mile-

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(Rem, W. C. Geology of North Carolina, Vol. 1, p. 166.

eithin dai solated physical action to the ground extent, the particles being trapials, sours, and companies of feat; Indian down the slope the teached may super-ple depose that containing and. Such action and states, and approach the objects back in other times the property of the object back in other times the property of companies and the law of contrasting times and of organic matter have se-constant (Fig. 4).



Pa. 5.—Diagram strong: the function of a coffered self (a), but most; (b), demarked of it; (d), course speciation tobar, (a), self expected all locating plants.

20. Alluride stale. — In considering the importance of value as a meastering agent, if was found that it had lettle certainy and triansporting powers. The ollurial

"Condit. A. Test Book of Gordon, p. 1800. Row York. 1888.

ignd her the deposition of allerial nation. Define an author ped cample of allerial lapsals, whiteen one medity are may ped white. There is vary in grid, where my red of their. There is vary in grid, where my red of their periods is sharing we defined allerial lapsals, looking tensors as one or this time. One was one meaning to defend allerial sading, making a time show the stress before an adaption of their short of the stress of the short in a string of the miletand apportion may to that or me and the definition.

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these rule sixt dang shout treey throus set of the Great Philas Region. Their best and widest developtions is found, as the may inflored feet Top 6 their the beer Markings from them they up their slove a lattest stream of one branded sides. Extended of the Markingsh rivers. All otherwise floring and relating arrest wheels the latter floring and relating arrest wheels, there was varying with the size and without the Marking.

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The who of the charted province may be divided under the bank houses of temperative fifteness—(1) the first histonic promote the objects; and (1) the former, or all that plates. These wise divide in their densities of the plates, These wise divide in their densities are similar; the number densities in their cases very from a fact to a peakly principle by top copyle [1] the G. Thesen, expending in the transact, and their definitions and of the ord



He A.—Connection of typical stored min. (c), but sold: (d), denser; (d), morestified plain, a ment abrokal mile; (d), dead plain beauer; (d), very oil shotten factors; (a) oil algorid soil

standing features. Alterial soils, being very sich, are particularly edupted to trucking crops, although in most cases they are tillifed for more processes furning. When well drained and perfected from overflow, they are the sichnet and most enhable of color. 31 Marie 166. — The referrab while are surfacility hing sarried uses by these one eventually
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CHAPTER IV

GROLOGICAL CLASSIFFICATION OF MITTER (CHYCHRISI)

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get a last extending the experiment of the same of the unts, or shapes fixed for withing and constraint depressions, with susprince case. The rate of advance or wired of a placing in determined by the rate of which fix edges are waising or multing sway. If the melting is sleep, the less faunt advances; if it just belauses the universe, the

O're a complete discretion of glorier and placiation, we faither, M. D. The Chelal Gology of New Acres. Decl. Survey of New Jersey, 7td. S. 1905.

ice front is not a student; that if the making is upod, and the schemes of the placer is not had month in replace this waste, the ice is not line to extending. A great ice short may exhibit all them of these conditions many times in its history.



Fig. 2.— May of North America, shooting the sens covered by the gradiest shoots, the three croters of assembletion, and the regress name across measure.

8%. The American ice wheet. The northern port of the American continent was at one time covered by a

and that of its present all the present families have Armidiate used to the remark of the vertical of most order, the middle order that present is supported, the in order, and ordered, measured, present or working the means of the present is more of the could be recorded of again with reflect on any of the could be any of the middle and prices in living the confidence than entire to the fine that entire part of the little discount of the teach the present orders of the transfer of the middle the present orders of the transfer of the present orders of the transfer of the middle the present orders of the transfer of the present orders of the transfer of the present orders of the transfer of the transfer of the transfer orders or the transfer orders of the transfer orders of the transfer orders or the transfer orders orders or the transfer orders orders or the transfer orders or the transfer orders or the transfer orders or the tra

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at there came imper constants and a property return of the great ice fields.

37 The extension of the ice deset.—While the advancing ice in general relighted well-defined recomby, contain parts were more or less rigid. This was superially cretain parts were more or her rigid. This was especially been of the parts were for legs of the short. These parts hall become filled in their orbitons, particularly were the bettern, with earting and ringy custedly, which uited the creates processes to a very great degree. The constiguent of carefully power of the placetim in drawn comprehensively the group-fort milest carefully the seconders, or eartier not removed. or strie, on exposed rocks. As this short of ice slowly advanced a few inches or a few fort a class, the months of advantal a for sizeles on a few feet a day, the most de-notical and was earlied maps or where the feet between constantly formed by the northig inc. The original sail was wally on intrinsent for more directive to artism. The assuming shall industried not the feet and wastege-in vallage which by largelatinally to the inconventant, as did the vallage of the Pager Jakes of central New York. Vallages place of girls dayle in this source way often, partially or whally Elled with direct, and the enoth parally or whally filled with dirks, and these-ter tapprayly on model. Here, thing the temperature and. Here, thing the temperature of the tapes are marked objects that are misses and leaves. The mixing, printing the parally and statistication that were no semilation regards to greate the parally tapes to greate the parally tapes, the great printing and glotation to greated tapes, reply as also all.

The parallel states of glotation to greated the parallel states in another by a great transition where (Fig. 8). It is approved that the energy of the share was strong at this part of the parallel states of the



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it has become incorporated with the still.

Clocial fill sain are found distributed over all the area north of the great terminal number, and exceptly, coughly,

from New England to the Paritie root (see Fig. 4). They comprise a great writty of only, out only us to their physical character, but also as to fertility. They are physical additioners, the sites of the feetility. They are colored to many crose, but general feetiling is practiced on them to the practical degree. This means retrainer, either than intusive, operations. In some localities durying has been developed to a large entiret, and has permed to be not only a means of chairing paying re-training from such stills, but at the scane time a method of

lenging up their fertility.

45 Glarial lakes — Such great masses of ice weld "He Gerial later — bein pert passes of in wall and above and better, their later he between of per-ceivable with the later he between of per-turbing a later. He has the first he later and the perturbing a later. He has the perturbing a later part a leaves perform the later in both, when with mark religional later is lower, he was with mark religional later in later. He may be a with mark religional later in later and the periturbing a later in later and the later is later and the periturbing and the later is later and the regions and later in later and the later is later and periturbing and the later is later and the later is later in later in later and the later is later and the later is later. There is later is later is later and the later is later in later and the later is later and the later is later in later in later and the installation of the later is later in later in later in later is later. Willers. These formed shrived sinks of viside channels. These specially out the institution matter of the sinks of the sin The proful water remained in this condition for many years, subject, of many, to charges concedent with the solitation of the far frost. Bills the its mediag reading in the billion, these into were restartly fell by them that the size with the size is the second of the size of the size of the size of the size of the companion, then work is a first of the size of the companion, then work is a first of the size of the art of the price work in the price of the size of the order than the size of the Size and they after that thing, for the in the first Birth without and the Courte and Size of the Size and they after the size of the size of the Size and they after the size of the size of the Size and they after the size of the size of the Size and they after the size of the size of the Size and Size of the Size and Size of the size of t

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ag good is on het fin hiel hier on westeln in the feeling. The distribution of the given hiele of pool, as was found with a fine feel and an of the third hieron, a being with finish with a final in was large complete the disput expected primary. Feeling for the Regularies at these, records from the Regularies at these, records from the Regularies at the ground primary fine feet. I also mult finish ground regularies and the first while. These for the point under your cut of the much improved until of the contract manufacture of the first while the first hieron state. They are warrished to only five a tracking multi-record at public ground. The after warrished to the first in a reason at the sub-position of limits with a more contain. cerned.

64. Leaustine milt -- recent lake, -- There is yet 46. Learnities with—record late. "There is pre-sorted heateries of his consected which the ne-ject financed —recent lake all. While the plotal lake depends were formed many threatened of your say, the which all of the record group are in present of market-ties. It is no well-known last in physical prography the thin or well-known last in physical prography that the present and the property of the prography that the present and the property of the prography that the present and the property of the property that the present and the property of the have been revoluted to a coron proof, we then a meng-in set large enough to give them the troustance of the glocal lates with. The lake self is smoothy of a fine chancies, this is harmed, of good with. If properly whited, it is a shared invariably highly productive, and to adapted the a variety of everys depending on effective conditions. At Miles with . Deep photon not the extention a contribution for front of the photon by streen that four this server decree. This trasition to an impair of the beauty to for related since. The establishmen these the re-hard direct. The establishmen these the front at all prices that one to be readed the part of the prices of the server decree. As the part of the prices of the server decree and the part of the flatings (that he part of the p

bestow a characteristic topography to first region. The teggio y extensionate appropries ou my goto. The legs sol in found also covering the great areas of Chira-and Sheria, and thus it is not of the important stall of the world. Another sol, made up, at hists parisally, of wind-bloom resterial and found in Actions and Neg-fonce, is called atches. Volcarie soils of the motion United States and cheathers are to corne extent at most crigin. Sand dones are of Folian origin, but these girls

come. And cover are or recent copy, out ones are the neighbours to be agricultural value when com-pared with the wide named above, expeculty loses. 46. Loose rolls—Loose is usually a fine calcurrent offer color, of a policycle or yellowish buff order. While it may be readily pulsarized when subjected to calcinoit may be mustry pulsar and when misjected to cultifus-tion, it presents assumbable to marry in emissing ordinary machining. The revised walks and compensate formed by this and show one of its utilizing physical claused-iation. In Circus' caves that he are there and ordinary are sleg in the circles and extress calcsing in whit deposit. Another feature of locus in the presence of minute vertical caseds lived with a deposit of cultima carbonate. These cands need used a depart of relation networks. These needs are supposed to give the soil dis vertical elevarys and its tensorly. The particles of losss are usually un-routhered and angelor. Quarts some to predominate, but large quarteties of feldings, wire, benefit ends, augice, takite, and other selectures are found. A few typind analyses are given below

Biebliofes, F. Dieses Lors. Stud. Mag., Mag. 1882, "Biddeling F. Dibnes Levis. Stell. May, May, 1882, p. 22).
"Clark F. H. The Data of Condendury. II. 8. Coal Review, Ook. 1811, p. 666. 1811.
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CND .							1.59	895	1.69	3.76
(h)		ĵ.		i			33.0	1,17	149	1,42
100	ı,	Û	ì	i	i	į,	2.11	108	1.85	1.95
M.					į,		2	13	.00	-,11
co						ı,	3/	884	49	3.57
10			ı			J	3,83	1.16	6.23	3.00

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¹ Morehader, G. The Question of the Origin of Laure. Mrd. Justin Fordion' George Read, Gr. pp. 13–15, 50–71, and 128–130, 0215. sprinted operation. Therefore make there is no executely facile will, there is in its risk stans of patch, phaspers, and force the approximant is mady reading to facile with a facility of the analysis of matter in the risk of the analysis of matter in the risk of the workshift is the facility of distant and of copy to which it is subjected. In the little State of our to the Control of the little State of our in the Cone State of and and and of copy to which it is subjected. In the little State is down in the Cone State of the Ministry Nally.

40. Adole with, — The term while is a name applied to a time culcummer thay or all formed in a matter sense, who the that in which here is formed. It is appointed that, while part of the deposit sense from the units of talks alones a manufature were weathered unlier multilism of unitity, the remainder had no origin similar to that of

load farbin characteristic also seen to indicate that the calley addre night have been deposited by water? It appears, therefore, that, while the physical characters of all address recentlent saints, it may def chight and character similar semposition may be varied. Solve the the sealyses? To two typical solvie solvie:—

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64 MOLES: PROPERTIES AND MANAGEMENT

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CHAPTER V

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56. Soil color. — Another characteristic of roll is its color, which has originated during the processes of soil "Ulphona, C. B. "Divisible for each Intelligent Plantets within the Anatomy Son, United States, Tab. in Agr. Soil, Wol. 1, 80. 1, pp. 1-50. 1988.

74 BOILS: PROPRIESS AND PARAGEMENT

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CHAPTER, VI

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"Wiley, H. W. Agricultural Analysis, pp. 205-207. Barton, Dr. 1800.

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*McChaphy, F. G., and William, R. P. The Minmentic Determination of Arabberning Minerals. U. S. B. A., Aus. of Sails, Bel. 91 1949

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¹Philya, G. H., and other. The Microsi Composition of the Particles. U. S. D. A., Bur. Selb. Dul. M. 1983.

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Alex States I for Application and State of Soil, Allows, Sail Smaller, American States I for Application of Soil Spales. Amer. American States I for Applications of Soil Spales. Amer. No. 18, 1842, 1843, 1844, 1

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Pag 46. — Diagram for the singer-invalenced and stone forms a magnitude and scalesis.

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"Rul, A. B., and Rossil, E. J. Soil Surveys and Sil-Analysis. Jour. Agr. Science, Vol. W, Part 3, p. 307. 1821

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CRAPTED VII

SOME PHYSICAL PROPERTIES OF THE ROLL

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and In such sail would asturally be found also a modern to low pore space, just as has been enoughful in the ideal confittion described above. In grander is the blad confirm described those. In greatine, the process being such up of mad particles, present such internal personance. This confirms name only in the soils, such as lower, with good clays, since procedure with cortices firstly complete procedure. A fine-factored soil, which will proceed the procedure of the confirm of the confirm of the confirm of the confirmation of the con

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The centre was recommended to the centre of The should expectly gravity, or weight compared with no equal volume of water, of some of the common criments in an follows:

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SPACE PROPERTY OF THE SALE 118

garity if a purely mineral self varies only between mores finist, these being from 2.6 to 2.8. Her has fuences may approximate effect, or shows lades by Whit-only's determinations on the various expansion:—

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The only marked variation been observed in in the elay separate, and this may be due to the concentration of the implement alliastes in this grade. However, for all residential masses to this grade. However, for all practical projects the average should expect gravity of a stateral sed may be placed at short 270. One condition that easy very this in the specific of experient person. As the specific greety of the sell-hours smally stage them 12 to 1.7, the same hours there is present, the latter wil he the absolute figure for a given and. A papely segment said, such as mark or past, preand. A peoply sprace soll, such as such as past, pre-sents a markle shared partie generally surgice from 12 to 100, neutring to the annual shared. Note merced there externed severes from annual social sizes shared to see a 120. However, the great all solutions the surrage smalle soil may be considered to have an absolute species proving at sizes 120. If A Appearing species proving the sizes at 1000 as has pre-spece, depending on sectural and stree-tions or has pere-spece, depending on sectural and stree-

Whiteey, M. Home Physical Properties of Scin. U. S. D. $\Lambda_{\rm c}$ Funday, Sur., Eul. I, p. 31. 1921.

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*Eing F. D. Physics of Agriculture, p. 104. Published by the audien, Mediaco, Wisconia. 1912.

SOME PRINCILL PROPERTIES OF THE SOIL 117

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Pittle lack				113.0	32.9
Herb Get		÷	ы	111.1	32.8

The price space is a small self a completel by nature and size. If the notice content is then, the air space content is then, the air space content is the size of the size of

² King, P. H., Fireirs of Agriculture, p. 161. Published by the arriver, Medicar, Womenian. 1966.

M. The markey of all profiles — The number of positive is now price or make and on such plantine in price and a solid with plantine in prices, and, and the mode determine way beings, the profiles arrangement of the option, determined to the prices, determined to the prices, determined to a positive market to you and determine, the market is any given values a very lawy, repossibly when we put the prices prices and the very disk will now put the contradictional for the disk will be a price of prices prices in an indice to the contradiction of prices prices in a law part to ensure the prices of the contradiction of the prices of the contradiction of the prices of the

Number of particles in a Weight of sample in group sample of will \(\frac{1}{16\pi} \times 2.24 \)

The Security 1/4 or IP in that need for eleterating the volume of a opinity the distorate in this new bring expensed in confuredor. The volume of the sphere, thus, notificient it replies entireties, which must be multiplied by the absolute specific gravity of soil university or 2.20,

is order that the weight in groups of a single sail grain may be actained. A calculation by this method of the pumber of particles in a mody from regions below:—

Sed-SI) jacos	Program on Trans- case to vice Hala or Karra Structures	學是	Some or Some or Some or Some Option or Some Lean
Vincenor			1	
d .	3-1 mm.	300	1	2
Conne			1	1 "
with.	1 Sec	1,670	- 6	67
Vision				J
mand .	.5-25 ma.	12,410	25	3,23
See				
stod -	25-40 mm.	131,900	35	36,165
Very for		1,675,500	20	
	10-15 nm.			355,338
	16-35 m.	25,83(91)	10	3/30,400
Chy	below Witness	15,032,001,000	5	2,381,910,000
			١.	\$36,628,000

A very grain one is intributed by this worked, re-positly in sensing the time scores size of probles for the edge speace is till a follower. In the edge probles may been seen for the edge and con-proble may been seen for the sense find the same plant of the sense find the sense find a final time and the sense find the sense find a sense find that the sense find the sense find and parts that a sense find the sense find the control of the sense find the sense find the control of parts that a pulse select time sense find the control of the sense is sense to be supported to the sense problem in sense unempty and states of the Balack final time sense is sense as the sense of follows as present by the locuse of follows.

[&]quot;For mechanismissississis of the nivers, on Chapter 71, p. 154.

150 SOLA: PROPERTIES AND MANAGEMENT

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Course seeds .	ĺ.	ĺ					,			7,791,141,000
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Fine wanty kee	re								ı.	\$.485,009,147
Loves	٦.				ū			ú		7,312,573,613
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MES PERSONAL PROPERTIES OF THE SOIL [9]

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Surface = 1 1/2 x number of particles

As the estimation of the surpler of particles in a will is: as imacounts, it is existed that a extendation of the anchor regioned based on each a figure must be some in

error,
Henry, to give some idea of the internal unforcement by collecting soft, the calculations under a a first of
the energy will observe of the Thirteel States, already
presented, are given in the table to the following page.

Sea Chapter VI. p. 104.

Apprentisms Infragal Aria services by Annaise Clarific of Destro Roman Belle

	Barn Iroz Se Sua	Result France	Arms rq Actornia e 1,700,000 760s
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Famile	51	20	22,540
Par pois	79	MS	30,014
Sundy loans	212	ffi.	13.9%
Fine money inscre-	222	60	56,180
losses	294	335	2000
Silinotty	387	967	27.700
Stroly theye	407	1213	105,540
Clar here	433	1854	168.830
Sity clay lungs	488	1642	115.510
Can	683	3847	1(5.270

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80. The effective mean furnate of sell particles.— It is very excitent that the unbuildings percented slaves, both as to the number of particles and as to the interest NOZE PRINCIL PROFESTER OF THE ROLL IN

when speech, the first mostly, the vice active and whether forms and thereogened suppose the speech and the third and the first shift statistic tendings. In the speciality their accuration flight cheeked failed we were inseed it is single than shift and early shift of beautiful regarding their accuration of point, but the sould copy with it downs to be an in the comparent of the product producing point of the contra with the vegal disease to and water to pass through. This seed bring the confidence more made to the price, as premality was judyly destinated the confidence more and the state of the price and the confidence more and the state of the confidence and the state of the confidence and the state of the confidence of

chast for he stall are until practice for the first first from the early of the other neurone. The interfundation of the first first first first first first find particle for the prefer to the profit for the prefer to first f

*Nog. P. E. Physics of Agriculture, pp. 194-181. Published by the action. Medican Mesonett. 1980.
**Solidare, C. R. Theordinal Investigation of the Memorated General Maines. U. M. Cod. Byrorg, 200 June. Bigst., Nov. Li, pp. 300-384. 2859.

Irm which the effective earlies expend our le determined. These designates a will as those as effective more founded of public of 1800 milliorite stress indicates that this particular oil above as air and mater receives the last as a world be shown by a homogeneous will will design applicable that the best of the companion of the decimal public of the significant of the first which is placed according to the companion of the decimal public of the companion of the decimal public of the companion of the companion



⁴ King F. B. Pendpin and Condition of the Montecells of Urnard Pales. M. South Harry, 18th Amer. Repl., Pel. II, pp. 23-24. 1989. A coupled streaming of period King's those in the orbits, pp. 17-29.

SOME PERSONAL PROPERTIES OF SER SOME HIS

unto impred tables closely live life, 200. The effective functor of the particles of some of our common said, forgother with the other tree surface consend, in given lights. 2—

345	Berens	in frag Burs	Depres for ups Attende to the Cour For- te Ste.
Over selved	Minn.	36.0	8,313 m. IL
Sandy and	JE55 ma.	34.4	15,870 m. fk
Sandy longs	ISS un	35.5	TOTAL N
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berry day self	0160 nm.	15.3	73.206 m. ft.
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"King, P. H. Physics of Agricians, p. 252, Indibited by the soldier, Markette, Wasterley, 1911.
"Well, p. 191.

CHAPTER VIII

THE ORGANIC MATTER OF THE SOIL

One of the eccentral difference between a soil and a muss of not frequency lies in the organic content of the lorner. Organic matter is a necessary constituent to order that finely ground mineral material may be desigorder that firely guest friends material may be design and as and and that it may gue stops accordibly. Physical contribut deposits hopely on the powering and thereind reaction is greatly accelerated by the de-ony, of imports matter. In the present of and formation for addition in more or least according step. To reaching delain the cannot all report matter that by the growing of internet and the proof in another terms in an of the order of the control of the contro Heir the counted argues make their jud graining, and increases help good offending per a jud global risk, known, if no marky, at which are the religion of position in the responsibility from the lowers increased from the United States of the religion of the counter of the religion of t

tions. Some of this matter scenariotes from the show-ground parts of plants that have died and fallen down

to bester sized with the vallets and the musicide is much at that extractive and refrequent densy. The organic muster of the crotiers will a ferried from the most of the crotiers will be desired from a desired from the crotic will be stroked in very largely a cross of the extractive and subjected characterists. The relationship between the bases crotical of these with and the read developed in about 10 feb. 10

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11	107	3.5	- (8	3.9	- 70	1.67	
24	1 47	3.5 2.5	35	28.	38	5.5	
35	2.0	2.5	(8 35 2i	52 39 28 21	22	5.5 3.5	
11 11 12 13 14 14 14 14 14 14 14 14 14 14 14 14 14	35	13	l īi	2.5	10 10 15 15 15	2.1	
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55	1 7	1 5	1	l		1	

8t. Compasitos el planta — It ar usual, a classifying the materials composing plant tenne, to group them under three bunds — analogy trates, futs used only, used proteins.

*Exchance, M. P. Lee Torne Maine de Remin. Acades & la Sm. Legen., Then II, pp. 188-121. 1887.
**Sillard, R. W. Solls, p. 190. Nov York. 1990.
**Sillard, E. Er. Sonstern, der Organischen Stolle, p. 184.
**Sillard, E. Er. Sonstern, der Organischen Stolle, p. 184.
**Sillard, S. Lee

The arbitrages, being the great former's of CASA, which we cause the great respect to a price, a respect to a respect to

The neighed plant from therefore, while firstly well known, not a decided constitution, is for from single the departuration of not treatered, especially in the prerious of unique's mixed products, will collectely pice for at fact to compounds no simple; in fact, the almost not that the configuration compound will be not more one planted. It is only later in the presence of facusy that

promote. It is not much the proceeder of energy was simple, producte result.

**M. Desay of appairs matter in soils. Down the first that matchering in general in a process of simplification, and since it is written that the point them as it return the and it so very exception, the greened change that the captain matter undergone state for more of implification. This simplification, however, it were just out, and many of the product hall up or more complet from the original from Middle of the charge of employments as the following proposed operations in all the part proposed operations in a size-only present in a size-only present in a size-only present in a size-only present of the charge product of the charge product of the charge price of employee in the control from the companion and price desired. The size-only one complete the charge is a first minute of the charge price in a charge of middle or the charge of th

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180 softs: Properties and Management

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As the present of decay year on, certain and perdusaneed. Then are probably and and partially present charto distable is maintener protect of latestable defining of all kinds, as it also water. Bestives there, area, anthosis, artifuse, and tributes may result from artergressdown. That there present denses of super-institute found in and way be Hestenied by the following diagnam:

TOURT 20000 BOSOC ISSU FRANCICOS TOURISMOS ESTE ESCUELOS COMPANIOS ESTE ESCUENTE

So. R.—Harray shotoging the tiens proved these of require made both in min.

It is therefore passile to here passed, houles the original equal contributes which are restly of plant origin, not eight for plants and sometime departures products, that the compresses first here from the bill up that there. As states, the occurrent conception compared in the plant time, or ones the integral one products of complete forces, or ones the integral field in statestime, presenting, where every leverse older of copies compared. But he product is youthly that is treasuresty or the important governer levers. hen new timed. His day to logal in wind that the simplet polarities of these are the ones critical by energy although it is a well-restricted fact that some of the normalisy and attenuable companion may be taken up by critical giften and problets and a more importance from the standpoint of time as plant fixed.

91. Composition of the end human - It is reident S. Competted of the oil brane—It is related for the controlled part of the capit changed for the capit changed in the capital change of the capit change in the oil or fail printery and the consulty probe of the capit changed in dispose in the capit part in the capit changed of capit intuities; This is has for the most of capital changed, became the part and changed in the capital part of the capital provets difficulties. When the sell harms is trested with the various extractive species, reactions may be induced which would not take place in a normal coil. Compareds are than formed which not only would be shoomal, but would probably not exist under natural mulifices.

resultances.

A great wavely elasticle have surfied on the problem of
the constitution of the organic matter of the sell and
have published their needs. The ideas of the early
workers are really embodied in the conclusions advanced. by Milder," who was in many stays far in selectics of his

^{*}Molder, T. J. Die Ontwieder Heterofdinie im Bobs. Commo der Achtelerung, I. pp. 106-201 Hofs., 1655 Mar. Wier, H. W. Agricoloure, Analysis, Vol. I., p. 50; Baston, Fa. 1966.

III COLLA: PROFESSION AND MARAGRAPHICA

time. Makker contained that the organic contact consisted of seven distinct compounds, as follows: \sim

1 and 2. Ulmic acid and whole 5 Griencia I and 4. Hunic and and hunin 6. Ajustesic acid I. Cerric acid

These bodies his consistent to aroung from measurable by orbitains; thus, thris soid (College) gave turner and (College), which in term yielded gave and (College), believed by spectrum and (College), and family by crede and (College). Such a classic and healty by crear uses (Legistric). Such a close-fication sense very simple, but cretain flavor are at one estimated. In the first place, aircrage does not find a place in any of these formulae; permulty, the encourable are simpler than youst plant theme, which is not what or night has read point them, which is not best would be quested, aspectly on the card the departs, which is not and the departs that on the departs that one obtaining, the departs and of the problem the companies, the departs and the long which the departs and the long which the departs and the long which the departs and conduct words, that there was explained for the feet learning to proving that the distinguishest counted because of adults matched on what. That is translation, while propriets of a departs and the departs and a department of the department of th

again opered up the question as to the composition of the soil organic matter, especially the known as sufficients. Thus, while it is excitent that no neck composeds an gris

¹ See Haberine, O., and Harrey, H. C. The Goldon of Harrichi Granic Seriotzane from Scile. B. K. D. A., Ser. Solls, Bul. 43, pp. 13–96. 1990.

and heart and off travels with the first the course per periods in all forces that the same we have self. The week hause, we should be the course of the cou and bereit with, or cresic soil exist in the will, one name

in terms years incomposite that again term increase heavest this interest field opened by the correction of the Mulderin related. Ruman or, by this researches, handsome flexibly recognitioned brance to purceup respecta-sions and the state of the purceup respecta-tion of the contraction of the and metant south, must present with our content, power to show operately impatchining on drying, and sample-fine in the presence of electrolytes. Addid has statud the composition of the acid-soluble organic advance at post and in axincal sale. The references con proofs than obtained must be divided into the following groups:--

134 SULE: PROPERTIES AND ADDRESSANT

Nitra ritrager
 S. Dimairo acids
 Atomeriansk útreger
 Atomeriansk útreger
 K. Mounairo acids

The two latter contributes were found to make up the built of the organic stringer, but quantitative determinations growed meetrals. These compounds produced scanness readily, the rate deposing on their chemical structure.

60. The rate of break Schritzer — Of the therein, his large been rate of break Schritzer — Off, being had been been facilitied foreware reproduction. The practal basility of the classical analytical and project souther of the sail to rap largely his to be offer. While he mained that the initiation of price in proper in the sail on the large being and the first provided and and the large plants, and the first production of the strength of the sky or which and and the large plants and the considered of the strength of the sky or the state of the strength of the sky or the sky

Law of Computers instance made Sub-Oudaric Matter of Scheduce, Shorey, Schola, Hosd, and offens, of the H. S. Hindelin of Sour

Herisantus, Celle, Finite arbaylic mil, Diperceptaric and, Celle, N Celle, N Historie, Celle, N

Schoder, O., and Shony, B. C. The lateratio of Survivia Sci Ceppris Scholanous from Solls. D. S. Zi. J., Bor. Solls. Bull. 37, 869, also, Dale 47, 70, 74, 77, 80, 83, 87, 88, and 00. Moniformytok visit.

John C. (1988).

Jo Itarrie, GH, A. Biarries, GH, O. Saliglie alddydd, GH, GHOUB

Para a distant description from comparative region desirable and five basis. (1) these excitation colors and behapping (2) the continuing orders, behapping and behapping (3) the continuing orders, behapping and shapping are clearly lightly, an expect of the stages, are called, belapping, angun, and through (6) these continuing affect in antivitative with the channel hand down. We he praisely present with all companies extending five channels, it is a fill between the clear and the companies described in a complexity of an in a finite stage of the value of the clear and the contract of the companies of the two privated are consent without companies of all the be included.

attracts composition will later be excluded.

So far us the plant in rescensed, the composeds may
be disided into these groups—these that are bounded,
filter that are sential, and those that are tent, or haveM, in their effects. As an example of the first group,

historie and enclaring may be resolved. Here a islation and ensolating any to reaction. Here is a case in which the company for front it for the filt array, never in each in the plant front for individual position, which is a secret of behalfing, mightomating the might are in a secret of behalfing, mightomating the anti-length suffer may be not fill each in a first part of the filter in the first part of the filter in marginal by the publication of Handsham and Miller distinction of the filter in the filte compound was the first to be induted and identified by

compound was the first to be shalted and identified by Statesian, and is very toric.

38. Tests imaged in the suit.— The discovery of such compounds in the suit has serviced the self though of storicty. In which the interfility of create, with its accounted for. Boot consections are also held to be decisionated by surregular crops of the source knot. The

deficiental in number capes of the control. Its Vision 1.2 May not be a second of the control of

pain modelike of the sell himse larget originate author-malition of pure durings and similar, and con-quently are historical in their service. The trackly of and controcated an deplotrangeness and, points can-logic melli and althophed in any direction for recover-ty undertain, or that any old selection is a fetter in obving sells such conditions. Destitionst analogies of the sull areas to account very largely for the personne of sull notices. Firstliters, eccording to Scherines and Science, went to decrease the harmful effects of such Since, was to decrees the humbit direct at suc-ceptioned; risposses fordiners constitute non-tain matchill, and phosphorus or potent sectualizing afters. For example, is waiter relation and sawd changes manus speaking directions to reserving such steps; anters speaking direction to recording such steps; substitutes as displantament on contracting properties in probability properful in constructing counties, and petital has considerable inflames on

entiting, one process of the last material privates. While the material is the self-named by fally discussed at this point, it is quite rivinal that each conditions to lead to descrip which intending readings at the residued in

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the domain of the suspoidin of that preaf peop a throad the suspoint, with home, and joint the throad the suspoint, with home, and joint the throad Solar of the sun to, the contain the proposate with the sine as a security term to the two sequent is read in a section of throad to be the second throad is read in the second throad better. It is rep likely due to see represent the second proposate of surpose and confirm, and are to be considered to exceeding the second representation of the second throad throad

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fact, the perion district production of a mil is remidered field, the orders disinfle production of a rail in smallered by some authors in the a measure of instantial surviviary. With this increase is endoor desirable into sell art becomes some heatily changed and an information in bacteria and plant relationships may thereby be instanced. The fil-justic places by Wellay', show the companion of the polymorphism of the effects of indifferent humons underful on the endoor dissible contents:

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-	_			1	D.	0
Bell of Exercises of 19 scal	230	ė			384	83
Manuflorie sir		ì			.94	20.73
Amady wil	,	٠		d	1.05	13.7
A same will this matter.				- 1	9.76	11.3

White-colous limids may be embed by the plating of of both collections and stropmen below, armined and the soft learn. It is made by the first or twoly in place in the latter, it is made by the first or twoly implied integration below probled. It can be the colour by many below to active of them, on its arise two districts with place place in the two districts of the colour below to the colour below to

'Sochus, J., and Droest, 2. Unior dos Disprase, de Mrege, and die Deferring des Keltenforges in Botto-Dracts, Bull., 11, 15, 240-726-706. 1933 "Bully, 3. Die Tomburg der Organisation Raffe, Inte. 2. Briddiberg, 1937.

One and profit on, and an endance (Citig), byfringer dentifies (Mas), the integers (Di, and or direct Sign), and could shall find (Sign), the latter of the Base spile to reach dentifies (Sign), dentifies the Base spile and Diego en materially temperature, benever, an argued to good an anomaly temperature of the find profit of particular of the solid section, as required or the solid section, and the solid section of the solid

or admitty is plus block. Suggest about that does however not extent with a single from that the deep house was extended with an about the problement with a single from about the single from any first the single from a first the single from the single from

tion of the sell for the study of the ordinary busines con-, Maying, Henry. Protection of Summe from Masters Michaelander, Day No., St. 55, pp. 58-59, 1987. panels, a considerable mose of numerial measure, which is instable in water, alkali, and other colleany solvents. By the estencion of a large encent of soil, Scheiner*
was slide to study this mutural. He found it succeptible to division into six groups, as follows: (1) plant linear (i) insert and other organised material, (ii) diagonal purishes, (ii) lignite, (ii) and particles, and (ii) materials resembling natural hydrocurbens, as bitumen, asphalt, and the like. Such material was found not only now the na-ture of the not, but at depths of fillows or facuty feet behas or the mit, but at displace at linear or treaty test in-line. All the groups show listed were found by Schericar to be represented in the Chrisy-four soils suffected from all parts of the United States and subjected to rigid test. all parts of the Union Nationard subpriets in open text.

The seach crigin of such senteral is problematical. Placet and problem from softmation, with evaluation, and evaluation, and equivaries until be mentioned. Of a certainty for expension of distribution over the natural forces engaged in physical resultering. This curricum of material is improval, so it insides my un inconsiderable part of the soil human. It is very resistant, and enconquently leads stability to the soil coposic matter. It can be divided stability to the self organic matter. It can be drivided that the general groups cognitive and unexposurely, in the forces the original statence remains itself, while in the latter the original statents have been utilizated, the solely of such material and the changer fact it motive year not only increases the list of harmon organic com-traction of the second contraction of the contraction of the natives of the elements and the contribution of the material or the elements and the contribution of the contribution of the original contribution of the contribution of the contribution of the original contribution of the co re-root curring in the soil, our currier measurement light in the nature of the soil organic malter as a whole. M. The estimation of the soil organic marker — Many methods have been proposal for the februarisation.

*Schreiter, O., and Berrin, R. E. Commune and Nation of Carbonical Material in Scile, D. S. D. A., Dar. Soin, Oal 96, 1872.

the some removation of Malamater of the species action is such to see here proof or liquid possible of process of the species gasie nather.

This method is open to the objection that, besides the has of expanse matter, a certain result amount of varies of cardiomies, together with of amountaind companies, actuates, all outon discolor, and some affail this idea? otheries, all under disolle, and some short disolated in the temperature nevertical meight, indirect all. The method thurstone great high results, operating in the presence of large amounts of hydroxic dilutions. In attempt to replace the cubbs infinite is made in the freatherist of the cell years with unsureins confronts. Herealthrough these objections, this method is not of the best and is very generally used all over the world for the stand is very generally used all over the world. in estimating the regards matter of the soil. Very often

*Routen, B. A., and Matheits, P. W. A. Modification of Constant's Modified for the Determination of House. D. S. B. A., Div. Cham., Sci. 28 (what by H. W. Why), pp. 84-92 1864.

the embedies is carried on in a moust of oxygen over led opper stalls. The organic matter way thus be determed tory aroundedy, and the oxygen matter ministed by auditalying the carton found by the further 1204.

analock by archityche de sette lendy by strine (2004). Clean is and well-" I fill a model, request by this, fill, has been selfed and improved by main endough the selfer of the selfer selfer

**The competition of methods; use \$10 pt. 20. **Distribute and Provision of Agricultural Analysis, \$10 dt. \$1, pp. 400 St. \$10 pt. \$10

the to the release to collection? by the colorisal matter, though distance. This rectionly while it was contain impairing, release it is sales of its mattern and the mattern in the proposed of the mattern in the proposed of the mattern in the proposed of the mattern in th when we that concess out the matter american, he middle this perceive, empossing it to dryces, and mighing it, the perceivage of leases may be exhibited. The dark language extract obtained with the measures is called the Matthe Poice.

This noticed has undergons seems tradification? of This motived has untriggent several insultrations," in which that of Illipsol f and that of Houston and Michield-solut the most promising. The method of the latter chessists has been adopted by the Association of Official Agricultural Chemistrs and is considered as the official agriculture to changes and is considered as to consider medical. In the procedure an attempt is made to leep the concentration of the summers in consider with the soil constant during the extraction. Consequently the sample, offer freedoment with the soil, is worked into a

git also contained for the gift. He was a second a surface of the process of the

The Law recomme House or Managers Passage State

								Parcentag	,
fresh	bk							61.97	
Po(C)								1.12	
								148	
6,0			÷		,		,	7.90	
								811	
								.09	
MgO.								36	
P,Q,								1227	
								.98	
(D)						,		1.64	

The relatively high percentage of phosphoric soid is investigately noticeable by this analysis. This indicates

^{*}Bayder, Harry. Solv. Minnesota Agr. Rep. Sta., Sul. 41, p. 30. 1862. 3

dat no men perize of the sell phosphate is half in organic combination. The promotion of favorable lay-mont front must the libratic a considerable amount of phosphane for pick utilization.

40. Organic content of representative seas. The perspic mount of all smaller solely accoming to elimptic conditions. The following strengs data show the linein

of variation as well as the comparative content of the important soil sersions of the United Shates —

	Sax	rAnn	Dur less re-less		
	ы	News	Apl:	Sahol	
Korth Chatral States .	LN	28	3.00	110	
Northwaters States .	106	.10	1.72	1.33	
South Contral Mates .	136	.55	1.80	85	
Boutbeastern Bisties .	.34	A)	1.53	23	
Seniesol Blakes	.99	.63	2.65	(3)	
And State	39	.64	5.03	12	

It is at one appared that the relocal contains one claimly be require relative than the product upon the late. The relative the late that the late of the late of the late of the late of late of late of late of late parts and the late parts and late of late parts and late of late parts and late of late parts and late parts and

rage loss 25 to 16 per ced, scending to the nobeline of minute mixtor from characters seems.

18. The beaute central of rich.—The leanue central of a side of more received to the report metter them; noticed. It librates notes excenting to distant and appay not only in arrest, but also no employed in the librate from complete from filipped, whether the post:—

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	Enem to (in. (Newsley)	Names of Logar (Francisco)	Service in Use (francise)
			
# Arid pplands offs	- 91	15.22	.175
In Sphiregular and sells	1.06	8.38	.100
Mil cuid sole	4.52	4.23	185

If, a reident that benefit with not mly notatio the portral meteral of organic matter, but also need in bases. The houses of the soil regions between the bases of the soil regions, herever, it is the portral demonstration going on. In a conception to the procedure form of the soil of based in the procedure of the soil of based on the procedure of the soil of the s

criman. The perestings of himse not only document in the lover digitin of not are constitut, but also charges in comparing, humaing poors in adopted the desper-tic and is prestated. The following data on a thorough the will, quested by Higgard, may be sited as no in-formation.—

1/Report, D. W. Holle, pp. 136-137. Hew York, 1913. 1864, p. 136.

148 MONTHS PROPERTING AND MANAGEMENT

Bees to Four	France or Sient	Paragraph or Streets of Brane	Property of March Atlanta
í	121	5.39	.064
2	L10	4.33	.054
3	1.04	3.87	.04
4	1.07	3.75	-34
8	21	2.16	.618
6	.30	2.60	.015
7	.57	255	E13.
8	.28	3.54	0.2.
9	.34	2.34	.63
10	.58	1.15	.000
11	20	1.51	.003
12	.44	1.61	.006

Other depth relationships, especially repeating the properties of earlier, harmen, and alterneys, are brought out in the following data, obtained by Alway and Valle in the study of Nebrusha Seith:—

Constitution of a Haven Count, Namenta, Son state

Corre	haren		manus	Pressure	Stat to		
in him	News at	Grour	HIME.	Here	ě	9 1	Ē
11	585	210	147	1.81	10.3	8.7	10
J	100	15	100	.50	8,0	93	.6
- 1	166	.31	.40	.52	\$.5	7.1	- 8
4	86	24	39	.06	57	7.1	8
6	E34	17	.19	.33	6.0	5.6	3
- 6	827	- ii	.18	.35	52	59	3

"Alvey, F. J., and Val., C. B. The Relative Amount of Mineger, Darlow, and Humay in Some Metrodes Roll-Neisrades Apr. Rep. Str., 2017.

300. Influence of the neighbol redefield on the resolute bases.—It is relieful that the same thru with any insect marked in Policy of the product of the companion of the compan

	¢	,		×
Sau	17.84	3.04	30,04	.0
Rodel	41.28	338	ស្តេ	3
Occupant	56.30	7/8	48.72	2.9
First few	88.88	3.82	1931	5.0
Con services	46.83	620	45.18	u
Gure dover	56.22	3.40	34 14	8.2
Maj. 2210	13.77	430	26.00	10.0

Although the humilation may not here reduced expedition in this sure, the post existion in release a challenge from its time are the post existion in release a challenge from its present some control exist may be a similar production of the challenge in the control exist may be a control existent in place graph. Benefit yet weather of the challenge is not a lease in the analyse from the control existing of the control product. The variability of the orders produced and expens of the collam produced in the collamn produced in the collamn

¹Seglet, Barry, Projection of Hannes from Munaco-Movements Agr. Sep. Sta., Bul. St., p. 25. 2897.

will by the photographs of your markets or thus, you have been present that the property market is present that the property market is required in the formation of the present that the present the present that the present that the present that the present the present that the present the present that the present the present the present the present that the present the prese

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102. Maletanance of soil organic matter. - The main 10. Manuscance et son organic nature. — The trans-ticutes it a proper supply of agrain motion in a seal is a question of peat practical importance, as productively it parently very lengthy by the human continue of the seal. This maintenance of the seal human depends on two inters—the source of supply and methods of adultico. ed the granulum of garper wil conditions is order that the agrees matter may perform the legitimate functions. The agreeic matter of the soil casy be increased in a we capper gauge of the sources of enteriors in a whited skep by the plowing under of groun crops. This is tailed generationing and in a very notificative pro-fer. Suck crops as crue barbribest, closes, proc, bears, and worth load themselves to this method of said in-formation. Not only do these crops invoices the actual Orthogenia content of a self, but in the rose of legiones the ritinger also is immand in account, due to the

152 miles: Propriette AZO MANAGENTARY

it proceeds basical activity as well as plant growth. The addition of fertileurs will often be a baselt, so will also the establishment of a suitable retation. The nonand the establishment of statement retains. The no-tion of corps not only prevent the accumulation of trade materials, but who, by increasing coop growth, makes possible a larger utilities of organic matter by

geommunolog Good and management acrits to adjust the addition of organic matter, the soil conditions, and the losss of organic matter, the soil carefulors, and the lowest through couping and leading, in rath a very finit puping cope, may be larvated without impairing the lamous supply of the soil. Any system of agriculture that track to personantly lower the cognite matter of the soil is improving, and mayneolized, so well as unselectific.

CHAPTER IX

TER CHARDONAL MATTER OF SOILS!

is the almost becomed in the formation of the objects of any soil, that in the presence of motor action of the every fourth particles, when the place of the control of the every fourth particles, who is high abstration, another stronger, and the light abstration, another stronger in the present assertment. Out to return the love in the rather of a whole his is stated. In the love in the probability is stated, when the substant of the beginning, however, that

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The mission of the binding partial electrons are prome discussed.

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154 POLLS: PROPERTIES AND MARAGEMENT

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been calcular. If The Third Michael is which there provide no two from it is a primit one, and or likely much less two from it is a primit one, and or likely much cheening, and is in the more profession which the market counts. The cheening of the country of the cheening of the cheenin

aspenies. While this method of corporious tals to magnite the various planes that orbitals materials any exhibit and in therefore fairly in this regord, it does by explosion to the difference as to the of pa-cife that crint between collicial buddes and materials as they are estimately second. This mixture is in them by the following diagram:

CONTRACT REAL PROPERTY OF THE PROPERTY OF THE

Ho. 22 - Thighet obroding the relationship of the collected state displaced recognity to colorary approximate the first Mathing.

The childs parties very it has been MS of a seece to a solode, for any on the long part of the last parties and the long part of the last parties and the last parties Since calleight particles very in size from 1006 of a

150 SOLLAY PROPERTIES AND PARAGRAPHENT



For 32 — Diagram strong the possible range in the site of colored particles.

134. The properties of antitists.—In present often one cracks properties which materials in a solidisk state until the 21 ye with they are distinguished how two actions. In the fast place, also they are set it has solidised, but the respect to the contract of the respect to the contract of the respect to the present the contract of the contract of

influences to a right degree. Secondly, collode to not per entity through uniperveshir membrane, as against paper, while crystaleids do. This serve as generate paper, with experiment on the server is a very every wey of expending milheld and expeditional number. As a matter of fact, the membrane in their a galloid. Thirdly, heat and the solution of electricities galai. Thisly, but not be stiller of destroyler all new to conjugate a program continuous calcin, a permy which again serves to distinguish their sharply few a tree whiches. Providing a hird of materials are pos-darptice prover, and pile restrict their few materials in sulptin, up quality of incluser importance in will other in the law of the materials of the same a material in a certain state of distinct, in which it collisis is a material in a not percessed by an entropy ungenium or by a true solution. It is therefore proper to speak of matter to di-vided so being in the militidal obseque welluidal confitien. where one me the revision round, or wanted to make the fill is not to be informed, because the collected phase in contacted with the repetablishi, that collects are succe-phase. They were or may not be in such a condition-lation, the sure material may exist mittent attention! Accept, the same natural may end without natural deeps either in the cellular unceredularly acceptable date. For example, olicie mid, besir hydrett, gait, enten Mack, and other nationals may on any not be cellularly and committee to increase the fewers of direion in the explosation of cellularly property. In order to place and a discontinuous array understandably batter. a few illustrations of the collected state will not be across The following materials, which may exist as collects, may be for convenience grouped under two general heads, appear and inauguries:—

Urperio: Gelatin, agus, carened, albarrio, starch, jelly, homes, rachen black, tentio cold, etc.

ISS SOULS: PHOPERIUSE AND MARADEMANT

lengunie: Gold, alver, inne, irric bydrate, arcrives order, sine cable, alver indide, Premise Mine, etc.

III. Challet (best - le pess) he verifiers verseure plera delitie at dispersion and version and versio

from a sel to a gol. It is what tright he colled a reversible from any to ago. It is writing to send a recentile which Merever, it is not congulated by unlargy sulf-dient of soil or by houling. The fieric hydrale called, on the other houst, when precipitate or against said by any means tony not easily be brought back again to the ad soil. It was not about increasible called. Measure, a jage. Leutworld investile delit. Manner, ki fram despit på sinder i destripe. The eight på despit som destripe. The eight på despit som destripe. The eight på despit som dette som dette som dette som overhedelit som dette som dette som det som overhedelit på delit som det som det dette som det som det som det som det te hat på det som det none opinion are sensor own by the character. It is placements in offer spokes of set furnishing. It way god cample is already by tracing a city supposition with a little cause have. The try purishes about amortisticly coalers loss furnits, and, because of their amentingly content to a forestin, and, harves of their contained weight, sink to the bottom of the con-taining weast, fewing the appreciated hyaid claus. The same period will take place to the sail third, but of takes with loss expérity and a rater qualitions less solitewas with the equility and unter qualitate the 2005-the to the eqs. The coloids then therem does, being legely increasible, connect again assume their leaves thirdwise and thus low their delanguishing character-ibles. In general, wide being about forcession while white do not, exten units and colors by these being the host-known exceptions to the letter. Amounts is an intrace deflectator. 100 BOLLS: PROPERTIES AND HATADEKENT

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laying, whenthy it should given all water, because more and more friences, and at his toney less its grid qualities and frances hard and irremerable. It is ordered, their free, that worting and droping, first, and the like, because finders in declaring with the from of calcidate reality. 100. Common will confident and their generality.1—

IN Common out orders and veer permittin."— The certains of collisis may, for exceedings, be dis-cased under two locals, organic and inequate. Of the legans, the so-called branic and stands on the complex, of the latter, edicis and, levie hybrits, and acceptants

of the start, starte cost, some system, and autopass scalific eliminate are the commences. (Espains selected —The horse codicide in a normal facilie will probably stake up the half of the establish matter. Buch material is very hetrogeneous, very complex, and emotionly changing. As yet very little coulder, and constantly changing. As not very little study of the cryptic roll collide has been made became of the difficulties presented by the professe. Bearing califold may be viceous or non-viscous, so the case may be yet on any order part have already that when yet in studying power of these collected for water, quant, and such non-terminals as calcium, usegments, and potteds, in

[&]quot;The Demande, J. M. Die Georgian. Mei 19 18. Desite, 1981 Am., Sie Marsteinerschappen auf des Daufe, 1981 Amerikamerichtigen auf des Daufe, 1982 Amerikamerichtigen auf des Daufe auf dem Steiner auf der Steiner auf dem Steiner auch dem Steiner auf dem Steiner auch dem Steiner auch dem Steiner auch dem Steiner auch dem

163 ADLE: PROPRETER AND MANAGEMENT

very highly devoloped — more as, probably, than that of the integral collects. These equate collects are primarile from the impact of the integral collects. Some of the basic natural solitor, Some of the basic natural solitor, Some of the basic natural solitor is associated on the integral of a solitority of the other of the collects of the total solitority and the content of the collects of solitority of the process of equal to devolute products of the process of equal to devolute products called an interference that the collects of the collects of the collects of the collect of the collects of the

atmost cutter. 100 negative to revent, dynamic hard fact cutter all size old or has conjunct two the experie cell hard loca wave throughly strictle. Such collisions agreeated density the question of the ordinary factor of washington, question, the containty-lates. For example, when a follower method control that the problem of the collisions reaches may be used to district the possible dump that taken place:—

2 KátšýO₄ + 2 R/O + OO₅ = H₆Al₅S₆O₆ + 4 SiO₆ + K₆O₅

Notine particulty were last in single in this way, begine with such in administration of sim. The come beginning to such in administration of sim. The come becaused by each of the such in a continuous proble of the such in a continuous contin

103. Population of collision. There are a marker of public chain may be seen in the proportion of surface of public and status, the of description of only on well and status, the of description of only on well and status of the other chain of consideration of the collision of t 118 Proposition of collects - There are a morther of

nothed has in its extreme surrous. Mercetholoss, since reture as a transfer system of controlled pro-fer calls of private present a sunformeable moreheau, this method of proposition service to explain rous acriess that go on between soil and plant during the processes of waterlies. In the soil the humanion of publish matexts is entirely a natural exception of chemiens and bio-logical fraces under such conditions that the particles After off over in that state of division which has been design malest on redlessed

It way be inferred that the quantity of collected matter in the average sell in large, but an a maker of fact this is not the case. The properties of the sell in a coloidel state at any cun time is very small. It must be remon-bred, however, that material is constructly traing theorie out of the collected condition and at the same time cone

MA auga: Pagrangua and Managrang

is generated; thus the effects may be marked, although the structul present at any one time is extremely misoria.

189 *Collatis and sail properties.—As may naturally be inferred, the influence of the millioital matter on and to attend, the inflation of the inflation are me an conflicted, especially in whited to plants, is retiremely important. This inflations is exerted in two ways. Miss, on ordering and planticity; and, secondly, on the advan-tive power of the soil. Buth those qualities must be one advood, not only in the physical, but also in the channial and the linksgiral, study of the soil as a medium for cop-

and not, with the spoint only to determine the scholar-fit is sufficient at this point only to electron the scholar-sists of calciulal materials to the development of such qualities.

The second important articles imparted to sail by

edicit devoluçum în light relunções primer. This para estande est estiy se matematica el gase, but also to rester and so matemba in metales. The rester of matematica on oby and particles when expert a contracted attemporar is largely destroyed by the sal-licital section. In other words, the orders experient of sided motor, the whole we who the series required ability matter by a promotion for war comment, and it is greatly to the will be present to be an extended in the series of the series hild error of the sol, and that the adjustment in constraints are always traved an equilibrium between factors. Collabol interview out open the same always that power for all materials, but in applied or object the power for all materials, the reacapity of an amount on that is a side of the collabol in the collabol in a side of the collabol and the collabol in which the collabol in the collabol in a side of the collabol in the is sufferent to emphasise the relationship of adsorptive

systems to esphasis the entropy of associates process.

198. Patters allesting collects.— It must not be inlocal from the preeding direction that the generation of collects in detrinental to sail condition. In light

with the precess of unds material in observely recessor, as it was it to hist of an it specific, collising regards, as it was it to hist of an it specific, collising regards in fig. and present he and a plant fixed by institute, and preceded as the collision of the plant of the collision in the plant of the collision in the plant of the collision and plantice, because of the compaction for the off in this light where with the collision and determine, and the collision of the collision in the plantice, because of the collision in the plantice, because of the collision in the collision in the collision is the collision of the collision in the collision is the collision of the collision in the collision is the collision of the col tyucil.

In general, the practice of understorings by allowing the weeting and drying of the soil to preceding in the first step not only for the embing of excessive and improper day not only for the embirg of extensive and improve collidal follows. In the first the consequence of just the right development thereof. The freezing of value, follow at proper time, the addition of branc, and the algobiation of fine use of provinces that sid-in the central of collisid contributes. Since the contribu-tion of the collision of the collision of the col-mol contribute or chief of fifth and graveleting, a further or chief of the collision of the collision of the coldiscussion of the subject will be reserved for later occord-

III. BritingSen of collected content. The collects in the soil are so couplez, so returned, as variable in function, and so succeptible to change, that on coord function, and so sumptible to thange, that su costs determination of the counts is impossible. The knowl-oring of reliabil particul an general in so weaper that it is not sumpting that such sight advances have been noted in tally and dairy determining the character in a complicated material, so the sail undestucted yi. a. The important metalost of residuality the collad mothat of the sail depend for their expression on the intensity of ectain qualities, response to be developed largely by calcul context. This indicates that the methods use edited content. This billions that the real-bil use higher extraction, where the content citation of single extraction, where the content citation of all a states. These injection statistic to effects in content, two literations, Adalty Land Historia, Fig. Hamadra—The first investigate to advance, a statistic for first investigate to advance, the manifest data the second of this demoked from a signature of the collision tentum for the manifest of the collision of the collision of the manifest of the collision o the This inched is not of great importance at the present time, exempt as to the indemention that it gives repeating the evolution of collected will stall study. repecting the evolution of colloid and study.

Adding — A sected study, and we of upod unce
using, has less readined by Adding ? The found that the
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THE ENGLISHME MATTER OF SHES 160

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CHAPTER X

SOIL STRUCTURE

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"Micross, A. His Partialité for Two Johnson. No. I. Helephonels, Paul I. Held, J. Selo, Pr. 42, 1970. "Kingson, G. S. J. Stady of Soc. Likelyon, Planindr Korkoll Vision, Sont. Co., Son. Sci. 18, pp. 422–482. 1844. abouty in use. The all practical purposes in soil disassessy to use. For an process purpose in set us-curring general description form may be employed. 133. The cause of planticity.—Smally what may be the cause of planticity has long been under discussion. The vantous there advanced may be prouped under the following heads:"-

- A Structure of day particles

 1. Finances of going

 2. Plate structure

 - 1 Inteloding partido
 - 4. Source structure
- B Presented hydron almorrism elimates
- C. Malecular attraction between particles
- D. Prosume of reliable matter

0. Conserve classics state: Of their theirs arounding the fighticity of orise in the size of middle meter were for and re-scale? The present of plattices calculd water, while seeing options control water, much be the first points of the property with a classic time entity arthorise for much present the last time to entity arthorise from to present the last time entity around the first parties against a first middle for the manufact did that, in greate, then calculate meaning ready around better the property for search of a similar point, and the calculate the property for search of a similar point of the manufact. It passes the calculate the property for search of a disklap to the calculate. It passes the scale has the calculate the property of the property for the property of the pro

¹ Book, N. R., The Phoblidy of Cop. Trans. Are: Cir. See, Fel. 15, pp. 55–75. 184. ¹ Cholanas, A. R. The Chiled Theory of Phoblids See, N. L. Chiled Holler of Cir. 1896. Aim, Solids El. R. The Chiled Holler of Cip. and 11st Measurement. D. A. Stad. Servey, Sch. 388. 1000.

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105. Odnober. Very closely correlated with plus-latly, but not in court similarity, is colorino. By the

TH SOILS: PROPERTIES LED MANAGEMENT

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Pathers' and a protestion appenties, remission of a restrict size had by well pitch and mutatoples by a weight thing over a path; The other than extend on a tab lever or while a remission by a weight thing over a path, and the lever of which a beside not be similar the meaning weights been promission. The tellurist parties are limited to meeting the lever is sometiment by the similar than a restrict which are the lever as the lever of the leve



Photoer, H. Underwinnen über die Kohnmans der Bedomkon. Nernd. a. 6. Webste d. fügn. Förent, Tond. Über 128-501. 1896.

**Admirra, A. 189 Kreisten und die Britzbie der Bedomkon (Art. 148-4). 1898. 1899.

**Chonwen, F. Z., and Gallagher, F. R. Mainters Centuries für A. Bedomkon (Art. 148-4). 1899. 1899.

**Chonwen, F. Z., and Gallagher, F. R. Mainters Centuries für Uber 128-40. 1899.

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"Prober, E. Vegérichedo Datemelougo the dis Rétirement symplector Referable. Internet. Met. for Rétirement, Base III, Bate 3-2, Rein (4) 28. 1918. K

have been determined either on surples that have been sected to a maximum platforty and then becopin as the required minimum content, or or uniformly composable amples that have been allowed in being mater by emplharity. In operand the convention would occur with compgrace-being, which haven, will follow the direction of a content of a being minimum of the content of the con

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* Parkur, M. Unterschappe ther die Zeitreseine del Reference. Forest. a. d. Coloino d. Agri. Physik, Band 12. Sain 66 141. 1888.



The relationships shruty quites of use especially will shawn by the cornes (as Fig. 28), postationly described of the missisteness that the content of the best of chiefs increase standily has a saturable motified using deposit in teached, the increase becoming accelerated as the principles of mixture decreases. This is because

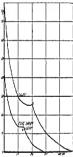
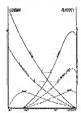


Fig. 22.—The subselve convex of skey and fine sectly lease at receive model-constraint. (13, point at which and obseque to only

the hinding power of the colloidal underial is greatly asympted by desirection. In a conce still such as quarta in which there is vary little reliabled matter, the otherian is developed principally by the water film. As esterni a territori principally to the rater film. As this thirs, the polling power inversors and the curre-mentals the when the soil drive this film discepts and the curve deeps again, turing an orbital limiting ma-teriel. The same relationships are shrom by curves (see fig. 20) adopted from record determinations by Atlan-

by 20 years to more determined by the least Determined by the least Determined by the Market Det and indicate the existence of a page where priffer in correlingly high or low. In a skey well is study of the optimum moisture unad-

*Asserberg, A. Die Reminione Kurven der Meurodielen, beleraat, 1682, I. Bedenkunde, Rand IV, Helt (-5, Seile (15-58), 1994.



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tion is normally in order to determine what is just the right markers content for goal planing. That the content on the controllar goal and the content of the determines of the first factor by its more factor. It is always or grade for the subsetts to draw factor, it is designed and no more markers to draw factor, and the profit part of more markers and the factor for the superior developed and the first many operations seen to confinently opinion removational models in the Mesone, to have yet with point don't get the variety will primary that primary that primary that the markers of the superior that the markers of the superior that the superior that

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110. Countral of cohesion and planticity. It is exited and only that exhibits and planticity control the
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*Comerce, F. K., and Callegher, F. E. Havistan-Control and Physical Condition of Solls. U. S. D. A., Nor. Soils, Itol. 30, p. S. 1988. 

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a relatively few centure. This process produces clied, or "compress" produce. If there are numerous line, of seasing, luncows, losses will be usual resulted of season, tractions, and consequently a longer number of small cloid, or granules, will be formed. This is the desirable elods, or granules; will be intided. The active according emolition and constitutes good titch—that is, the west favorable physical condition for plant provide. First what may be the effects of webling and diping on

the collected matter of soil is a question. In general, the shield native of all is a parket. In good, desirate most is been relief out on any come that being a pure bearns lightly descript fronty. If then desirate now investigate, at may in the rails and adulted year, that the large features more or has personal, while crysion the training features much continue for such other training to the proof. Writing is the test had, which we have the proof. Writing is the test had, which is the proof. Writing it is the test had, which is the test had, which is the feature in all themses were proportionally as well as the proof of the provision. The following frour desirates the promission.

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Hopin, N. O. Siene Cause of Bull Ornaulation. Transaction, Roll Agree, Vol. 2, pp. 108-121. 1910.

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¹ Rippin, E. O. Samu Chann of Sol Law, Sep Agrees, Vol. 2, pp. 198-424.	1	311	nk	dir	n. These

MS TOURS: PROPRIETERS AND MANAGEMENTS

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*Repia B. O. Reno Cases of Soil Charalettes. Tucktime: Son Agres. Vol. 2, pp. 186-152. 1910.

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*Figure, R. O. Share Oboves of New Granulation. Trans. State. San. Agree., Vol. S. pp. 196-151. 1993.

194 BOILS: PROFESTIES AND BANAGEMENT

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"Resington, R. Physicol Proposition of Sci., p. 33. Intent. 1990. are lock. This desirations of the cissing amagement of particles path in marks the two forces that there il-mity been deemed, the paid of the water fine and the latent power of the entitled matter. The strongth of colories between much particles, and as day, can be maded when we make the incury why which there parties are held together in their particle and the colories are held together in their particle and the colories in the colories of parties are near superior in easily functional to the square of the distance but seen the centers of the active study beginn Particles that even the terminal to closely departure or our

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CHAPTER II

THE FORMS OF SULL WATER AND THEIR MOVEMENT

Upper all some learliftons the soil howe a certain tracest of mixture, which much be released with in graphic release. It is precised or all according to graphs released a practical and according to the position. It is the according to the position. It to the receives extending to the position in the hast produced as the position of the characteristic and the according to the effects and the produced as the position of the different beauty of the position of the produced as the produced as

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protects returned to the proving section.

128. Excited is water in the neith-has has already here demonstrated, a soil of a definite volume weight her a definite pure space which may be compared by any or by water, or should by lath, so the case may be. Of course, as that soil for plant, growth is one in which there is look air and water, the proportions depending on the

terror and the structure of the will and the starters of the corp. Assuming for the time being, however, that the poer space is entirely filled will water, or, in other poets, that the will in standard, there have all variety are found to be present—typescopic copillars, and the or, or postitudinal. These forces differ, not to their computation, both it the position that they everyy in this

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The Signwayel and entitling water on the different to the control of the control of the primition in the control of the primition that the control of the primition of the control of the primition of the control of th

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or of free writer to expillery with a change of structure, temperature, or present, as was tree in he the new locarest the hypersonjet and capillary mixture. The house of water present in a saturated will may be conveniently represented by the following diagram:

RYTHOROPIC] CAPILLARY | PLEE

Fig. 10 - Diagram separating the three forms of water that may

12. Approagé estra — The hypropris veriin sell table replació af est er ente electronica,
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Homers, Georg, Unternolonges, Oher das Checkens-Genommelsen der Deboussitzentes für Gun. Perch. a. C. felbase, d. spri. Physik. Jane 17, Data 1 et 1822. "Hobers, d. J. P. van. Cheseringere Ghr da Alego-Genommelsen und die Bytendomstätt der Todeskonstinwites, Kernik. d. Gestein 6 Aug.-Tayak, Baud XV, Sein 182-285, 2003. eapasses, but is distributed over the great internal suface exposure. Such water cannot be emplied by originary drying, but the material must be subjected to a high heat in order to drive off even a part of the water so held. The question is greatly complicated also by the fact that

The question is grampy computation and by the next. This results in the formation of hydrates and other salts. Sush water example be expelled without the breaking-up of the computants. Ordinary soil possesses to an extraordinary degree.

the three characteristics already cited: that is, it exposes a very large amount of free surface; it tends to generate continuously large amounts of colloidal material such as ferrie hydrate, aluminium hydrate, silicic acid, and especially humic materials in a colloidal state; and it always has present compounds having an affinity for water. However, since these compounds are easily satisfied, and also since the adsorptive power of colloids is due to the surface exposed, it may be considered that, other conditions being equal, the hygroscopicity of the soil is essentially a surface phenomenon. Although for all practical purposes hygroscopicity may be considered as having special relation to surface, exact correlation is not easy partly because of the difficulty of accurately determining the surface exposed by a normal soil. 134. Bffect of texture and hamus on hygroscopicity. -

The question being thus reduced to a surface consideration, it is evident that the texture of the soil, external factors being under control, is the determining factor. The following figures from Loughridge, by whom the hygroscopic

*Loughridge, R. H. Investigations in Soil Physics California Agri. Exp. Sta., Rept. of Work of the Agri. Exp. Stations of California for 1892-3-4, pp. 76-77. evisions was determined by expering the nively will at 15°C, to a sectabled absorphere and then drying at 200° C., Mastrate this point: -

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¹ Chamberhin, C. W. The Backer of Midwaler Allow-ties. Physical Review, Pol. 30, pp. 170-182. 1410.
¹ Diggr, L. J. On the Adoption of Vision Vagor and of Cytish Scien. in Appears Review in Quantum Science. In Appears Review in Quantum Science. Pol. 9, pp. 437-461. 1005.

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The results as to the effects of a city in temperature on the hygroscopic film are not so definite. Most in-

¹Debrook, A. F. von. Unterspiringer that the Aberphagement and the Hypman-point for Bottobastic-visc. Fresh A. d. (Tables & Apri. Physik), Dard XV, Seite 19-238 – 1990.

SIS MILIS: PROPRIETES AND XARADRASAT

vesigators find that as the temperature is increased the legroscopicity from a lowered, thus following the general have of adaption. Hilpard, however, obtained appeals made when the six one estimated, although his opposite results when the an more naturates, attringly lie data agreed with previous results when hypotenspicing were started in our standarders untilled as to the seque-ity for water report. Norg¹ explains this disorderary on being due to the very high vapor pressure generated as being the to the very high vector pressure generated, by a satisstical formalization on high temperature, usaging a next major thinking up of water by the said that was less from its nation. The time unessays for a said in angine its necessary the british of a said in an certain. Higher's cool severe hours in his detamina-tion, with Michaelland to provide his and the waxed days. A said continues to introve in weight story is a finite of a constant to increase in which the other his time of account in which it is increased, as the conits liver of expected to tradit ait in increased, so that a shap list of derivation between explicit and hygo-couple water is difficult to whethic. Capillary water may even be present in the minute introduce before the

hypercepic film is chartern estimated.⁴
137 Determination of hypercepising. The method of the determination of the nazimum hypercepicity of a sol, or, in other words, the hygenessyle coefficient, is simple in settlere. The soil, in a thin layer, is capsed

Patter, N. P., and Onlinton, P. E. Admostries of Francisch George Spin. II. S. D. A., Der Stein, Bid. Sil. p. 20
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Patter, E. S. H. Tyyles of Aprieties, pp. 199-98.
Pattern M. S. Said, pp. 10-201. New York. 1931.
Steinholmich, E. A. Erdenkersch, pp. 55-43. Pail Pages, 1986.
Targer, 1, 24. The Variation of Bull Moistan. U. S. D.A., Ser. Stein, 843. R. p. 12. 3897.

to an attrasphere of delistic hardlifts under careliform of central functions and pressure. Complications seen from the necessity of using a very thin layer of and, from the difficulty of controlling handling, and form the and in the converted of term, twy this have all all, been in effectly of configure booking, and in a package of applity which is not rule and interdect-tion to the property of the configure booking of the term of the configure been applied on the low frequen-tion of the configure pointed on the low frequen-tion of the configure pointed on the low frequen-tion of the configure pointed on the low frequen-tion of the configure booking of the configuration of the size of the configura-tion of the configuration is the configuration of the configura-tion of the configuration of the config

first the sail grain estimate without energy for loss of wenters other than that simply adsorbed. As so much energy is expected in reserving this film, it is no enable to raped that a certain amount of heat of condensation when the time is recovered would become apparent. Pat-ters' often the following quantitative data committee dispoint:-

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Ru. Bal, Sal. St. p. N. 1933

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The significant value—It is a low down in the government of control with a they provided in the specific at legacy the wallen full-more of the significant of the sin

time to thicken until the rows of the water is so good as to allow gravity to come into play and pull enough water away to again restore the equilibrium. The sail particle result at this point he maintaining its maximum. parish small se this point to maintaining its maximum histoness of outplay lim. It is due up the ordered that as the capillary film is thought one for example, by composition—that times developed by unface trans-world be increased, often to measured areast and the film, and the olderathy of convening the external loopes of the film would aroundly become promise. Hi. The form of water surfaces between sed proteins.

All. The form of state surfaces between sold profiles,—In the case of see, the bower, the question of the coulding film becomes some country, since a great man be of different sized profiles are present in a case to do so mosted with one mortales. This areas that in the normal soil conditions the coupling film is continued and conditions the coupling film is continued man parafact to arrange and conditions the coupling film is continued to consider form that of a film about a wingle instable of the consider form that of a film about a wingle instable of the consider form that of a film about a wingle instable of the consider form that of a film about a wingle instable of the consideration of t goin more or los spherical in chope Superson for example. Superson for example, that two reserves





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* Effer, F. B. Mantastina in Sin Larut and Pole of Morents of Control Water. D. S. D. A., Wonder Rur., Ad. A. pp. 52-41. 1999.
* Wirelys. F. Ortspartnerse after the Watershapeshield Processors. Pereb. a. d. Ortskie der Age. Physic, Sand S. Sins 24-175.

more wit. Due to these two conditions, a will of fine tentur will module considerably more explicity notes that use of which the tenture is more. The maximum conflicty capably of a sel is not directly proportional to the set of the the best of the received properties of the court of the

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Fig. 16.— Shapes, electing the distribution of mainters to mellital election of each and of different matters. The earl of each and order contains they page.

(se Fig. 36) from Brokingham I maken else not only the influence of tenture on equilary water, but also the distribution of water in a capillary column. The final mean water number of these sules was 50.

The final mean resize nortical of these mile was 60, 65, and 50 per meat, respectively, for the fine and, the postly learn, and the clay; showing that as the featherhomeses from present in the acceptive policity unitest area of the othering for the difference in hyperequie

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figure have been obtained by Burkington $^{\prime}$ in his study of love-scal compact scale. The following curves represent the greenal total of his marker —



Pr. E. – Digram showing throught of a stampedien upon the size better of weather in regulary gricums. (F2, layer mode ima-(F3, companisately least; (F3, companishe; (F1, laser size.)

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De biese or the compact and. It is obvious that the femen ray of much the constant of capitally valve by proceeding a proper physical condition of his and. I the Chymic matter, expectally when it has been relians to the ferm of termin, but great complexy supertify, the excellent in the temporal the minimum continuous of the cold. To penelty affirms an environment and the

* Brokinghou, H. Hadier to the Morescont of Bro Main tens. U. M. D. A., Bur. Brits, Sul. 38, pp. 14-55. 1907. but, while its obtain cost on affinity for originary which raises in water capacity to a very high degree. Its tendency is word on writing in the actuage in marking include to an argument for its nationary mediates to the contract of the

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"More, P. E. Agriculture, Vol. I, p. NM. New York

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*Briggs, L. J., and Molano, J. W. The Michigan Residence of Scile, U. S. D. A., Bor. Saile, Bell 45, 1907.

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³ Hilgard, R. H. Sols, p. 389. Nive York. 1911. ³ Trie text, paragraph 131.

to become equal, due to the pulling faree developed by the angle of curvature between the particles. It is ex-deat that differences in curvature must be the motive



force in the capillary wavetern of sail sates. Let it be supposed, for convenience, that time equal sphere when brought in control sphere when brought in customing the form of the first three shades of the spike whether of t

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with purely to conjective, any quantitative where the purple by explicitly.

This explicitly uncontent may to on in any direction in the soil, since it is largely independent of gravity; [24] under initiated field confidence the adjustment tends in take place very largely in a vertical direction. Were a sud is exposed to evaporation the surface libra ax tilimed and water moves upward to adjust the $^{\rm tim}$ sim. This explains why such large quantities of selwater may be last so rapidly from an exposal sel. Copiliny adjustment may go on downward, who, as is the case often a shower. Here the explicitly of the n^2 justment is add by the weight and movement of the states of persolution.

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entraine of this surface, and sater tends to flow through the capillary the space at a and of, toward this area of gentler location. If water re-

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¹ Erege, L. A., and Lapisan, M. B. Capilary Stell² U.S. D. A., Ser. Sub. Bul. 12, p. 25, 1962. ¹ Solley, S. Hatenstomper, ther dis Esplice Lobort de Flamen in Prices. Procs. L. d. diskins d. Apri. Physis. Suid 7, Solio 109 SE. 1884. ger appeals to the meltions of sidel and. Struction, in their a silical sidely is every role, and of the next and inject that is melting amount to be the highly decided with light points and the light melting the light points and the light means that the means of its letters be before the side of the side of the light points and the part with treat studies. Bill, which we have the treat studies and with treat studies, and the light point and the light points and the part with treat studies, and the side of the light points and t

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[&]quot;Write, K. Dabousburger ther die Karben Leberg der Menze im Belein French a. S. Gebieb d. Ann-Hersch, Verd S. Gale 205 Sta. 1883. ¹ Ging F. H. Pennersten of the Lord and Raboul Flow of March. H. S. D. A., Weetler Ber. Sed. 3, pp. 58– 51, 1952.

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¹ Beiger, J. J., and Laphers, M. H. Paghlary, Budes, D. S. D. A., Box Solis, But 15, pp. 5–18.
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* Barris, N. O. E. The Minet of Reliably Relia is the Physical Properties of Rolls. U. R. D. A., Bur. Rolls, Hul. M. pp. 73–14, 1921.

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(Mellay, R. Unterschungen ther die Kapillers Leber der Masser im Bodes. Princh is di Gelebe di Agri-Phyli-Sand 7, Krits 200-200. 1889. Also, Princh is di Gelebe di Agri-Physia, Aust 8, Bode 201-202. 1886. ing equality is doubtful, because of the senicture offered by the dry and LM. Testine and the capillary pull of soils. — An ingra-

10. Include and the approxymations. A shapementally be manufactured by the application of the application

"Youds, C. J., and Papel, H. A. On a New Mathod of Viscoting the Capillary Inflint Strike Jorn. Amer. Soc. Agran., Vol. & Mr. 2, pp. 107-114. 1913. ments already made regarding the relation of testing to equilary power:

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The capillary pull may also be established, at least excepanatively, by the height of the wetted self-self for

comparingly by the highest of the central with an in-termental relator at terms point in our dimensals that mensals a quality equilibrium when in her his has mended a quality equilibrium when in her his homester with a secondary of the LT. Borne from heiselinghand (Fig. 30, 300) the minimal relation of the first and the central relation (Fig. 30, 300) the minimal relation of the first and the central relation of majority amounts— Sometice had subject to below to a destination, his destination is also destinated in the central relation of consistent of the central relation of comparing a subject to the central relation of Income, other at, the same time it will interprise it capillary jult resulting it a haster and a higher perfect flow of water. The cross structural anothers of any sal-in which this result is realized to its highest efficiency is in impossible to judge exactly. In general, however, the

*Backingham, B. Steder on the Marcocout of Scil Mar-ters, T.C.K. Tr. A., Ror. Scile, Rel. 35, p. 22. 1977

THE TRANSPORM OF THE METTER AND A THE TRANSPORM OF THE TR

same. By the other-len of protify, the reder same demand demaph the orbit at and straight with all without conditions. Imposed table is reproved, in fuller, present temperature, to leave, sold studies, in milespacing of the operation of these better in re-Robet, some the region demandation flow some from the Robet, some the region point growth. The stud-ies resempt the growth The studies are the Principles. And the resemble of the leaf of Table 1800 are the resemble of the resemble of the re-formation that the resemble of the resemble of the 380. Through and the momental of protify settle— Wa very evident that any pressure exerted as a visitor

254 SOILS: PROPERTIES AND MAXAGENEST

column will accelerate the rate of flow. Under necessary morations preserve may arise from two sources, long-metric preserve and the weight of the vector orders. Charges in harmetric pressure are communicated to guaritatived water through a movement of the toil siz. As the menuty column rises, more air is forced into the As the memory counts track, from any account too the oil and the pressure on the soil water invoices. Such and stage have been observed by Eding! to produce at high an a 15-per next decrease in the flow of drains. Many polynomied also that the level of wells the tasked from time to time for the same cause. The expansion of the nir of the soil due to duly herizoge was also observed to produce digraal occil-lations in the fewel and the rate of flow of ground water. Perhaps of greater import in the rate of percolation of

nowaps or greater injects to the resigns of personaum in water is the presume produced by the weight of the free water celture. Wireling thing this line, Weitschlowsky? has shown rather need-involve that with an ideal length of column the few varies directly with the pressure. We ideal column with the saud with which he experimental was 76 centimeters in length. With a longer column the flow did not increase as last as the pressure; while with now not not notate as not as the pressure; went as a sheeter column, drabbing the pressure proce than deabled the flow. These results have been verified by Welley' and obly reviewed by King!

100g F. H. The Sci. J. 100. New York 1000. Whileholousky, D. von. Regressedids Distruction for the forester of the properties of social methods. John Sci. Physics, Sci. 11, 100 (1991). Telephon. Res. III. Note 69-102. 1893. "Visite, R. Distructions in the foresterming law of remarkable der Robert & Worter, Parch n. st. Orbeits d. agri-strych. Robert & Morie 100. "Robert & Morie 100. Robert & Robert & Morie 100. Robert & R

180. Effect of temperature on the Box of grandy water. 186. Effect of importance of the size of group value.

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[&]quot;Milesteney, it was Deprimable the solventees the first Promabilities on Steine to There. Letter I. Bernardist on Steine to There. Letter I. Bernardist on Steine to There. Letter I. Bernardist on Steine to Steine Steine The Steine Control of the Steine Steine II. Bernardist of the Steine II. Bernardist III. Bernardist II. Bernardist II. Bernardist II. Bernardist II. Bernardist III. Bernardist II. Bernardist II. Bernardist III. Be

36 SOILS: PROPERTIES AND MARKHEST

if such a low was in force a sand having a diameter of 5 millimeter would cabilit a flow 10,000 thans greater than that through a city form with a diameter, say, of 605 millimeter, wherea the actual ratio, is a theorem experimentally by Kap, was but then 200.

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recommended for a sandy soil. A rational understanding of the numericate of gravitation water in cloudy necessity in the installation of the drains, not only that the system may be fully effective, but also that a minimum effective est may be realized.

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11. Demantices the equality of the very last 11. Demantices the equality of the very last 11. Demantices the equality of the very last 11. Demantices the last of the equality of the very last last per questly of provisional wine that a soul officially were several than the correction content to the proper and the correction of the equality of the equality of the equalities, assume the second of the equality of the equalities of the equality of the equality of the equalities of the equality of the the equality of the equalities of the equality of the three will refuse the first the extension such with the equality of the three will extend the entire the equality of the three will extend the entire the equality of the three will extend the entire the equality of the three will extend the entire the equality of the three will extend the entire three entire the entire three entire three three entire three entire three entires the entire three entires the three will entire three entires the entire three entires the entire three entires the entire three entires the entire three three entires three entires the entire three entires three three entires three entires three entires three entires three three entires three entires three entires three entires three three entires three entires three entires three entires three entires three three entires three entires three entires three entires three entires three three entires three entires three entires three entires three three entires three entires three entires three entires three entires three three entires three entires three entires three entires three entires three entires three three entires three entires three entires three entires three entires three entires three three entires three entir the most days below and will give up all the profile and water. King found that will were a mad the distinguishing of the free water continued over a spar-tice and one belowers. It must also be noted how for homeone of the insensing of the capitlery water was retirent of and its assemble, the space for possible free when increases, their assemble in the proof in free of which increases, their assemble in the strenge may contain a behalf with the contraction of the strenge may contain a behalf with the contraction of the strenge may contain a think that is the strenge may contain a think that the strenge may contain a think the strenge may contain a the strenge may contain a think the strenge may contain a thin

which may also work on the reverge pays common a children's high native conduct.

38. The calculation of the free wasts of a self. — A none nearly actuate idea of the possible free-value specify of sail may be obtained by solubation. If the shoulde and the separant specific growing of a self, and "King, P. J. Physics of Agriculture, 30 134-158. Pub-lekel by the gallon, Herlines, Wisconnia. 1911.

its possentage of movimen when capillarily satisfied, we known, the following formulas may be used:—

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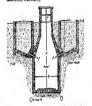


Fig. 28 — Down notion of a soil tank at Gamal University, New York, Life and makes become party and provide of features since.

*Laws, J. B., Gilleri, J. H., and Warington, R. On the Amount and Comparition of the Rain and Desiraps Waterl Orlinded in Religement, Jour. Roy. Agr. Syn., Ser. 11, Wol. 17, pp. 269-271. 1861.

A Carroll Minering¹ is spiciou of most Carlo minin for goals had not out through the Mark of what the goal had not out through the Mark of high parties by spiritely, which is derived the Asia parties by spiritely, which is derived to consigning the mark of the parties and the Mark of the Mark of the Mark of the parties of the Mark of th

'Ayon, T. L. Toninfor Mil involuzione at Occasi Distrius. Soince, M. St., Fu. 25, No. 74, ep. 62443. 1933. 'Anticipius, M. Revice on the Movement of Soil Antico, C. S. 11 &, Rev Soin, 3rd M. pp. 9-18. 1989. port of the lagrancept: water respecting in the order mannel. If the least of the strike masters were the only menioderic, the problem would not be selected to the template of the ord must be consisted due for the first at the strikes become this a capillary stronger than the strikes become this a capillary stronger than the strikes and the strikes become the strike the capillary stronger than the other capital capital in the first than the strikes and the strikes a stronger than the strike the stronger than the strikes as the strikes a stronger than the strikes a stronger than the strikes as the stronger than the st

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"Wiefagton, R. Physical Properties of the Boll, p. 195. Cummine Press, Oxford: 1500.

CHAPTER XII

THE WATER OF THE SOIL IN 198 RELA-. THON TO PLANTS

Write, is his holder, how of the extendation is plose goved in that it is received in the first plant goved in that it is received in the common of authority, which reads in the interest in the companied for plant reliation. It also function us a site and the size is plant to reliquish to the purpose of the common as it maintains the topidity of the plant each, set as a control of lood marrier's field on marrier of lood marrier's field on the control of hydrogen and strongly be stilled as a sound of hydrogen and support. These direct or induct relation of what to plant growth may be considered only the field as a follows:

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Sal maisture, therefore, in groups amounts, become one of the controlling factors in every growth and must be leaked to before the maximum stillaration of the primary elements can be appeared. The manual of mater bell within the plott is not large, however, in can't led within the glast is at large flowers, in comparison with the most the by transprints, at though group place certain has 60 to 10 per cert al-though group, place certain has 60 to 10 per cert al-mostra. Although the can't may fairly be found to the contract of the contract the final transprints and the property of the contract place of the contract to the contract the contract place of the contract to the contract the contract place of the contract to the contract to the last contract place of the contract to the last final to all residents of the contract to the contract place of the contract to the contract to the contract to the contract place of the contract to the contract to contract in largely fact or departs of by two-polation, at the same disapproximate of partial — throughly function.

188. The water requirement of plants. — As reight he expected, the pounds of water transpired for every possel expected, the pourse of water transports for every point of dry matter produced in the crop is very long. This figure, edited the transportion ratio, or mater requir-ment, ranges from 500 to 500 for everys in humid regions, and almost twice as much for everys in avid climates has assume over a more or representation of the casespication rate of a creep is successful difficult, due to the negloods of procedure successary and also to the difficulty of controlling the numerous factors that may vary the transprotons. For early reliable figures the plants must be proven in ron reary reasons regard too paran man to provide cause or pots, in order that the water lost may be deter-mined accurately by weighing. If there is no percubative, the water ordinarily lost from a couped and includes both that composted from the said surface and Outamough from the form. The forme the may be placed the midwale to the well-the three fields in the first of the midwale three three fields in the second of the midwale three fields in the second of the midwale three fields and the region of the place three fields and the first of the midwale three fields are fined and the fields are fined and find place that the fields are finded to the field the fields are finded and the fields are finded as finded and the fields are finded and the fields are finded and the fields are finded as finded as finded and the field are finded as finded

¹ A board discussion of the various methods is found or follows: Busingmany, B. O. Mishods, of Determining the Waser Businesses of Chross. Proc. Amer. Soc. Armo., S. 35, 50 31–38. (Bit. Sain Sings., L. J., and Shasia, S. L., To State Singshound of Thesis. U. S. D. A., Suz. Plant fed., Sai, 283, 1933.

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(6) Parters affecting transplation —These figures give to include not only the variation between copy, but also the great effect of classics and and on transplation.¹ The factors may be listed under three beads, as fellows:-

1) complete value of the Mentium meaning the elimeters and self-neither in shirt effect on interprished cuty be found as follows: Pergy, U. J., and States, H. L. The Water Requirement of Cartie, U. S. D. A., Ecc. Phot Lee, Bul. 28, 1911.

548 HOLLS. PROFESTION AND MARKSHIPS

1. One - Differences due to different corps and to variations of the same crop.

2. Clauda — Raio, bunnilly, sureline, temperature, and whole

3. Sail - Misture and grand firmity.

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10	180	1 1			

These data show dearly that an excessive account of water in the soil is not a favorable condition for the

¹ Halbirgd, H. Reitrige: an den Netterdausschaltlichen brachigen fen Jeigeben, Sein 199. Brausschoolt. 1990. ¹Hentgewere, E. G. Helbole of Helomonog fan Water Segments of Cope. Proc. Amer. Box. Agress, 9al. 8, 8–76. 1017.

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- 1	\$2,026	302
- 1	25,574	322

² Hebringh, B. Beitrige as the Neberometerlabbits Grandlige de Arbeitras, p. 629. Seamethreig: 1828. ⁵ A mile of Ca(NO₂), equals 1 mg.-equivalent. A set-equivalent of Ca(NO₂), equals 823 mg.

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13. Situat of tortion on insequentian. The efforts of better have been intensigned by a survive of sente have been intensigned by a survive of sent, der more if the Section 11 and of Michael heiring post-laps do noted thinking. With these investigation into the contains are not an interportate mits, but conclusions not not be intensigned and the contains more of providing that the latest final the foliations of the first entired office contain under plant-field meeting, it is probable that the in the foliations of the transition of the first entire of the section of

other than bettern alone.

24. Aftual amounts of water measures to make a sery — deliverage of our to some from the lumingation who that the surround of water measures to being an Amount of a water measures to being an Amount of the water measures of the service of the deliverage to the deliverage, he desired to advantage. A fine addition to the other service produced in single a development open of wheat would be obsert two time. Amounting the transplanting

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20 SCILE: PROPERTIES AND MANAGEMENT

exise to be 200, the amount of water articley cood by the plant would amount to 600 tons to the same, or when 5.2 inches of minful. This does not include the coupers. tion that is continually going an from the soil surface. which might very saidy account to as much more. Hereover, this deaft on the toil water is not a voicern one, but increases gradually us the copy develops, until at heading time great quantities must be supplied in a short period The necessity of moisture conservation in order to meet

the plant requirements and preserve its normal revelopment, even in humid regions, becomes obvious.

176. Silic of suplimity in the supplying of the plant with water. — A query arises at this point regarding the made by which this innecess quantity of water is supplied to the plant. The plant models, equically their about on one parts. The parts recover, operand with the intensition, are few in number as nationard with the intensition augus that contain most of the mater retained in the axit. How, then, does the plant await inself of water not in immediate contact with its modelet? This water not in immediate contact with its modelet? This question has been articipated in the discussion sources greenes not com management is the development accounting the capillary equilibrium while the day to occur in all wait. As some as the multit hegies to absorb at one point, the film in that intentitial angle (see Fig. 36) is thinned. A considerable convenity of the water worker occurs at that point, resulting in a great outward pall occes as not part, recurs in a pract offshic part which causes the rather to move in all discrimes bound that point. Thus, a feeding notice, by absorbing arms of the sel adultion with which it is in contact, creates a condition of instability which results in combinable film movement. It can therefore be said that equilistic is the important factor in may soil in acquiring the plant with proper quantities of autistance.

Many of our early investigators have overestimated

the distance from the third his amounts may be affected in proof requiring the finest. It must be religiously to the second the may be religiously about the controller for the religiously about the controller factor in that autifies. It has too the controller factor in that autifies in the second of water defined from a varietable to graph and formed from a varietable to graph and the proof after pairs in social or and only in the all pairs that the proof after pairs in social or and only in the all pairs and in pairs and in a pairs and in a pair of the pairs and in the p

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¹ Warington, R. Physical Properties of Sell, p. 176. Octobel (2011).
² Macharlist, R. A. Dus Warner de Propositionalekter barte, Rele., Revil 42, Sufa 701-717. 1912.

and the percentage of protein constant of the crop is dicreased. It is a crosse fact, as will be about later, there many of this percent and increditation effects of legaciations of will also are as plut growth age for some as these them the percent of to make which shapes. It crossed is described on illustrated with an observe regardally on the ratio of grain to states. Withself health and the protein of the percentage of the data's making the protein of the protein of the data's making the protein.

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As a general rule this dependent of the return of grain to struce is not due to an actual decrease in the grain, but to a correspondingly greater production of dry matter or

¹⁰⁰Bion, J. J. Ho Perbestin of Dy Matter with Different Quarties of Impoint When Than Jug. Sin App. 2011, pp. 10. The Control of The App. 2011, 2 Support in Direct on Define Thresched Hine Wil-Jampsath for Direct in the Designation of the Ministration of the Perbession and App. 2011, pp. 100–100, pp. 100–100, 2011, pp. 100–100, pp. 100–100, pp. 100–100, pp. 100–100, 2011, pp. 100–100, NATER OF SUL IN MY RELETION TO PLANTS \$65

the regulative parts. An available water increases this day matter accords until a maximum is resolved. The general relationships are well exemplified by data from



In the The effect of recreased voter reguly on the prediction of day analysis by various corps.

Nition, tahelated on the following page, although other equally valuable figures may be obtained from Van Schlanst? and Allenberg." The convex above (Fig. 40) Bostato Wittensis data and the general erord in the dry matter produced as the majstare is increased.

¹Wellers, J. A. The Production of Dry Marker volto Li-brand Quantiles of Integration Wiser. Disk Age. Rep. Sis. All, Rep. 19 (2) 40. Disk Proposents, Dr. Westerd, the Southers, G. volt, 1905. Represents, Dr. Westerd, the Southers, Weller and South Southers, 1906. Volton, 1906. Southers, 1906. doi:10.1109. USA. Marketyr, A. Southers, South College, 2007. Marketyr, A. St. Marketyn for Marketyn No. 1907. Southers, 1907. Co., 1907. pp. 1907. Southers of the Southers of the Marketyn Age.

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38.74	6,370	28.54	11,656	20.37	34%
38.74	6,672	30.14	14,120	21.17	405
6%	7,229	35.54	15,701	36.37	300
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177. Availability of the water in the soil - From the

177. Amidality of the water in the soil — Piran the diseased similarly presented regarder for former of the soil, the soil of the soil of

the viscosity increases very rapidly and eats down the oppositioning to such a point that the seeds of the plant an extension make a post of the plant of the no welfog at widely different times and under seriorly different confidence.

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led	49.7	42.10

"Animati, R. Color des Vermigen der Pflanzen den Beden in Watter au erwisigten. Inhenbericht der Agri-eben., Best Dr. Stelle 2014-272. 1865.

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258 SOLL CHOPSENS AND MARADEMENT

RELATION OF THE WHITE POWE TO THE ENGINEERS CO.

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an					2.5	12.9
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18 The obliga collected of place—It has been been seen years that the entering that species follows open for seen for seasy than special follows opening the series (per layer, the in a walky less actived been seen as seen and then makes (so if shows in positions in a state of sections; and things with the control of the sections; and the sections in a control of the sections; and the section is control of the section of th

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"Brigg, L. J., and Shorte, H. L. The Willing Coefficient for Different Plants and its Indivers Determination. U. S. D. A., Bert Charles, and J. (2012), pp. 111–14. 2012. 13). Calculation of the willing point — In studying the correlation of this willing coefficient to call conditions. Beings and Stanes of actives the Makes problems of Expensed as location. Been prepared another of a feet approximating the willing point from other and indicator. These formation was carriaged in the celebrat their reliability, based on the data obtained by the authore;-

- 1. Wilton point a Medition equivalent (error 3.9 per escal)
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168 Relation of neutron to the willing point. — You the data already quoted? from Hécories and from Briggs and Shanta regarding the hyproscopic coefficient and the wilking point, it is ordinate that a very class relationship crisis between the tention of the soil and the potentiage of minimum, at which plants with. The finer the sail terture, the higher is the witing point. The following figures, from Breggs and Shants, I being out the point very

Phigo, b. J., and Shate, H. L. The Willing Confident for Differest Floric and its Induced Determination, U.S. D. A., Dan Floric Felon, Del. 2017, pp. 50-77. ISSA 'This body prompin ITA 'Phigo, L. J., and Shate, H. L. The Williag Confident for Philment Floric and its Induced Shate Confident for Philment Floric and its Induced Shate Confident A., Bun Floric Volum, Sul. 200, pp. 16-33. ISSA A., Bun Floric Volum, Sul. 200, pp. 16-33. ISSA

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Biggs and Shants have attempted to express this corridon by a formula which, while very increment, shows in general the relationships already expressed. The conclusion in this rest is made before the willing point and do mechanical composition of the will :—

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33. Available and appropriately settler.—Advances in from the wilding now relied, ministre centred of a still of the manning policy maries it noted to give the first than the second point are. However, when he we will read to go the probability in complain, and we the extendition, and we the extendition of the propriate of the condition in more and relieve. This has the condition in more and relieve. This has the interface of the condition in more and relieve. This has the first thing will be probable and the propriate partial and the manning that the probability and have predicted as the propriate partial and then and beautiful to a protein generated as the propriate partial of the probability and beautiful to a layer than the probability and t

the capillary water is called the nominum water one treat for plant greath. The lade effects of free unter on the plant arise length from the providential that weak, from the pearson, for kind as the confidence of their expan, but finite materials lead to accumulate, Remarkle hashelf articles, such as intellisation and actualist states of a such exterior and actualist states on a such exterior as a content of the confidence of the confiden The various forms of voter in the soil and their uvail-ability to the plant are illustrated disgrammatically in the following fears.

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Pit 42: Higgs showing the force of auto in the soil and light relationship to the pints

164. Optimum moisture for plant growth.—It is very evident that there must be some moisture condition of a soil which is best for plant development. This is or a war when it never the point necessariate. It is not to be assumed, however, that the tolar maps of the ministree was respected this consider for applicant plant, greatly. Nor is this optimize water market in my particular and to be designated by a definite permy personal sail to to designation by a neutrop pro-centage. In reality the moistons in a soft may undergo constraints that taken and yet allow the place to design normally. This is homes the physical condition of the normally. Whis is homes the playword condition of the cell changes with varying matter content and the plant is able to accommodate itself to such a fluctuation without a disturbance in its normal discussional contravia-Wolfry? has shown that the optimum maximum for com-

Wolley, R. Untersolong über den Einfaus der Kalis-thundhildern auf den Produktenversägen der Enter-

WATER OF SOIL IN ITS ARLATION TO PLAYER 262

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CHAPTER XIII

THE CUMPRIL OF SOIL MURSTONS

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Fig. 62.—Diagram illustrating the ways by which water may be left too a mil.

It is immediately obvious that as the losses by mustle, leading, and emporation increase, the amount of water of the composition for formans. In and and content, against this last to place proof, while it has hely great and the last of the content of

or in arrest where the land is adapting or arbitar chaptering the status, a considerable around of the notices received as soin in Body to the last by marring sony over the sea. Under such considerations are considerations our in-parted. ((1)) we determine the contributions our in-parted. ((1)) we determine the collections our in-parted. ((1)) we determine the contribution of the placest temporary only or chartly in the factor. The annual of small variety with the mainted, the stops, and the determine of the coll. It were a relief in their fall. assent of rar-on runs was the nation, one way, one the descript of the self. In some regions it may rice as high as 60 per cost of the rainfully, while in soil regions. Air of course very searly some. As a general thing, this is in a crimated with the losses by leaching, the two being nursed is see frue.

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The minful and relative loss through the (United draft of soil is shown graphically in the following diagram :*

*Hell, A. II. The Heat of the Britished Republication. p. 23. London. 1965.



Per 43.— Balaid and provided whose through a Black and relation (contactor records, Balbacattal Reportment Antics, Regard.

present rouse historical fractions from his block. It has goine from their given but duty if you can did not settled in out of the settled in the settled in

30 Maria Propriation and Management

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The accept of pring addition to break the to track and feeling water with Carolic confloration way hard deplot the beam and gave important, while it all regions the selection as conquestions, while it all regions the selection, in Indigate the loss to by precision and result it is easy most as taken the part of the action. It will be all the loss of the part of the action. It will be all the loss of the part of the action. It will be all the part of the action of the action of the deep act inducts that density is not protected in the force of inducts that density is not protected in the force of inducts that density is not protected in the force of inducts that density is not protected in the force of inducts that density is not protected in the force of inducts that the part of the part of the course or important in a band of distinct.

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18. Empression bases - Empression of soil water takes place almost entirely at the purious, exceptions

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Amply schedules may be under this bill there the symbolement of the most mixed lies believed as the second of the most mixed lies believed the soft man of the second of any production, recognition, recognition, and the second lies of the sec Tay be devided in some extent, not enough conservation to come in this discottor to take a require a primit of changle. Preserved, attending should therefore be formed toward the checking of leases by ensymmetra, to measure their soot memory by the former and in the varior available for crup toe. It should be remon-leted that care as large properties of collected leads and the contract of the contract of

"Panington, K. Physical Properties of the Soll, p. 119.

STO SOURS: PROPERTIES AND MASSAGEMENT

the error yields we controlled more directly by lock than by comes of sector. It is a common observation that soils which redisculy give a low yield in assects of usnual as we midded give good yields in a vest season, which stop have demined in this influence of mysters on and feedlife.

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of the meetical elements, and becterial activity is cocountried. As a gradest rule, more soluble plant-food is fierly to be heard under a makehol seil, other conditions

liedy to the forms more a manner ent, there commons being equal, than under a soil not so treated. 151. Kinds of mulches. - Misches are of two general soils, utilitial and material. In the former case, keeign paterial is merely spread over the sail surface and evaporarealized is interny spreas over our sun survivous conjura-tion is obstructed thereby. Montroe, rivous, leaves, and the like, may be used narrosalidy. Such makehet, while may effective, are not generally applicable to field emps where intertiblings in practiced, since they would make cultivation absolutely impossible by combering the soil surface with a large amount of facet anticels. Their use is therefore limited to intensive entry such as are found in tracking operations. Leaves, including pine needles, and asserted are very effective as a smaller, but now presultions should be observed in their application. Her example, the eak is nich in teams word, which may be useled out of the mulch into the sail and by its effect to warm onto the much into the sun and by it elect in the genting plant may have in immining of perhalishing the same Beropean countries, as well as in a few feedbles in America, science have been drawn on the soil to nerve the a make, particularly in ordered and vinequal culture, with makefully leastfeld infinite. Terticularly in this with marketly transfers from the fortunary is than the on such leads as at the step to penalt cellination. No bother evidence this utility of this position, it as box observed in the full-positing section of the Oracle Mentaless, and distribute to other regime, that the through of stones from the hard out only mentles in the remoted of stones from the hard out only results in our softs becaming harder, but also relatest even yield by intrasting less of meistane. It is therefore necessary for the human to decide whether the inconventions in tilege or other superations due to the presence of ST4 HORES: PROFESSIONE AND MANAGEMENT

siones may not be more than after by their breation) affects.

The naturals for multing mentioned above as all schildy stiffed, and their spillation is practly limited, the to the last of material and the opposite involved. Buy are flowfuler used only order quiried confidence to the most layer at multi-his administrative and in the processing of the proper estimation is much as yet and sufficiently limited any sold surface may be brought also not a condition that example into not made any

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100. The functions of a match.—A well models deposited in the effectiveness on two functions—(1) the shatting oil of examination of Q the checking of examinary someward appeared. It has already been above that theread movement of water through day well layers in practically all / therefore, as long as the soil is day, evaporative is all / therefore, as long as the soil is day, evaporative is.

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180. The soil match wereas the first match. A low moth off and be made of the point againing the team "dust match," which is showed an commonly in real librarias. This stem would incline that the match is in a way the condition, the granulates having lease that way the condition, would not be unchanged bedieving, as it would encourage conflictly, while at

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the tame time it would become publish an metting certainly a very understable condition. As a matter of fact, offerent makes are not in a date men, but as, granulated and much loose than could be obtained were per firstly defined. It is reduced that the term "due" match." In increment and should be approached by "wait match," a figure of each within more manely services the true field medition.

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Fig. 44.—Despection currency a study lone under located and side modifices. Self-modeling has accorded under the self-send and send-send and a probable is a responsible has modified.

"Suckeyton, S. Studies on the Movement of Sell Mini-ter. U. S. D. A., Sen. Hells, Sell. 29, pp. 18-34. 1907.

38. Upon A mothe. The depth is a mink it is improved, quarticle finally finally from North experts of quarticle finally fin

the cardinal points in mulci centrel are: (i) suchles as more effective and more costly multitioned in an acid these in a bunil clinate; (i) their effectively deports detectly on their depune, losseness, and granulation; (3) study and in more easily multitated as a mulci than the ord; (6) fine too in their index is collectly for most effective displit; (3) often a heavy rain, the neal model must be proved by fillings, and this is most tree separate day from a supplier, one without that, which made better nealthout; (6) fillings for model property and collectly the methy part is proper or displit of heavy rain, that are other tree of the year; (3) is must design the collection of the property of the meth design raintains has madeline range by indicate their spendal communities.

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^{*}Dorlouge, E. O. Mrietary and Minder in Dry Land Appellura. Pres. fascr. Soc. Agres., Vol. 2, p. 181. 1811

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*Cates, J. S., and Cox, H. R. The Wood Factor in the Cultication of Corn. U. S. D. A., Har. Flort Index, Feb. 201. 1913. per COURSE OF ACE NATIONS 2018

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¹Cron, J. S., and Der, H. R. The Fined Fuelts in the Cell-wise of Circ. (1.8, D. J., Ser. Flant Luber, Boll 337 - 1915.
¹Crop. C. S. The Chain of Tripry to Flance by Weeks, Proceeds are Associated for the Opposed M. R. A., Chevell Uni-trate. 18 positioned. June, 1908.

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In horsel regimes the utilisation of a seel model is made less interce, since the conservation of ancient over large periods in stocensory, the for the said-Bewere, during the graving grams periods of death own, when if available water is lacking in the soil, the cop outer. The smooth of most one concred by a only meets. The turnout it character control by a right will usually large the plott growing normally drough such periods, while copy on each not as breated not sufferently. The tiding of maps over their periods of light related in the chief breaten of maidsen in huntil

Smits. dimits.

10). Other prations alleving evaporation feases—
through the control of votor by mobiles is such an imputest consideration, other means of cheeting losses are available. Three may be grouped under fire location

ge available. Then may be ground muto the facility foll and early apple spines, [3] relate, [3] before, [4] before, [6] before the is the cold at the class of the growing account in a magnetiate constitution. They market is not all adjusted in those solds in seminari sentime that do not liber tools belig when full-fixed, and others the voltar zoin is not sufficient to sold the cold in the con-trol of the cold in the cold in the cold of the three leads outlikes mustling from the recorded in a copped ratios, which, or harboy, a later passing of when may be lost by emporation during the full search. For the average farmer in hunter regions where the winter minfull is sufficient to substate the soil, early your placeting coupled with tallage, is very important. Not only may ministre be extracted, but the soil is waited at the stage when it yields must neally in pul-wination. Falors hard, and have stable had of fine-tratured said, are most benefited, since they become

empet to the very prive as a reach of the value rate and the value, and the thirden is satisfied for the case rapid load of very load due by prive 1. They also the by prive 1 and very producible without lighty to their future. In the Wisconia Emperiment Share 1 we subject the Wisconia Emperiment Share 1 was prived prived if the Wisconia Emperiment Share 1 was prived to the prival of the prival prival of the Wisconia Emperiment Share 1 was been the Share the same prival of the prival priv

was placed, it was death as harder for the conception, which is every jewer of such as the receiver of days, which is every jewer of such as it is every jewer days, which is every jewer of such as it is every a cover that it also distance in jewer. The resurcess that it is a such as the contract of the conception of the contract of the con-

200. Shelters. — Shelters of any hind, whether natural or artificial, tred to break the wind velocity and thursby chank homes by evaluations. Ships of finites are seen.

1 Eing & H., The Sci. p. 189. New York. 1976.

and previous resistant for this progress. Nucleithers and silk of the cost of the suite of the silk of has a wet sucker of twesty-seven square inches, the engossian was 145, 142, and 147 orbin centimeters, ensymption was 14.5, 14.2, and 14.7 other continuers, at two handred and eighty, three hundred, and them hundred and twenty feet distant—or 25 per out greater at the order stations than at the inner ones. A surely

indigenor reduced evaporation 30 per cent at twenty briggeror reduced evaporation 30 per cent at twenty the end 7 per sent at use incubed and filly fact, below the enspection at three hundred fact from the ledge. Fory often tent distincts are used in the georing of belown. The compressed from of the tent is a forceblesse. The connected two of the last is a branch often on sinc best ligh, over which is operal a boardy when which lareadystions by Second for Connected showed: (1) That the east greaty referred the extensive of the wind. This reduction accounted to 30 yet cost when the conside aglestic way were miles on horn, and Si per cent when the outside velocity was trenty units to hear, force being a natal regular drawner in relative efficiency with increased velocity of the wind. (4) The white hamility under the text was ligher than notice,

Ting, F. H. The Sull, p. 285. New York. 1916. Second, J. E. Winds of Stacking on Sull Conditions. U.S.D. A., See, Solin, Bull, St. 1927.

and during a goal quit of the first attained a fifteness of the pear. The effect of this is to broke to require the by from the 10 feet of the the to broke to require the by from the 10 feet of the the 1



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then metally us in the true provinces has augmented the couldness that under the land—modifices not continue to used one growth.

1th. Lord collection.—The relative of the wind and to the provid may be discloded by higher the sell. It is doubtful whether this practice outserves modern.

bestor a prision mount of section is reposed over with even profession step their jobs. On the close half, the properties, and a forestigation, without the foretion of the prision of the contraction of

tabe delated, on the arrance, from this protect.

IF, Flatte.—Floring proving on the sell head for clear competition from two causes—(1) their solders, and (2) the statement of the control of the solders could be appropriate in the plant provide. States, because, both in interrupt a continue current of solds and provide they can extract the cold. The amount of wider words in this way by greated many facilities of the sold of the cold of the point many facilities that of their their control delates or part of addings, and the sold of the cold of the cold of the cold managing in the cold of the cold o

No. Tommery at maintain control. It is clonly you from the decaysing of moither count in that the television of monthless of the six of the monthle specifical of the six of the monthle specifical monthless of the six of the monthless of the mon

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toward the regulation of the soil nationar in such a way that an aptimum water requir may be hold construing in the soil during the graving season. If this can be accomplished, the largest own jubils may be expected bias, are packible product the crising for thiny conditions of any soil.

CHAPTER XIV

SULL REAT!

BOLL RELE**

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For hibitography of the Hernstein of mylloud, we Bourgoon, B. J. An Interligation of Sed Temperature and None of the Not Important Factors Inflaming R. Michigan Agr. Ray, Ray, Nat. Technical U.I. 17, pp. 48-486. 1912.

294 GOILS: PROPRETIES AND MANAGEMENT

also to govern the time when his sensing and plusting was performed in such a may that the soll will be listed, at least as fire as host is concerned, for proper seed genuination and plust growth.

tion and plant growth.

267. Building all hand to germination and growth
in order to show the mast established by all but to genmention of sevel-and to the growth of plants, the tilenge data. Inter-Buildminit * are given. While three
hallow one and careful they show density the according of
careful control of temperature in the propagation of
plants:—

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18. Others and referred disages are to bestfor will see admissional desired dates in face to write that the responsive copy by the fit withcolor the color for the propositional proteating and the color for the color of facets, and fill seem for the control of facets and fill seem for the color to satisfy at the all orposes to distantial to the satisface of the all orposes to distantial or the color of the all orposes to distantial or the color of the facets to be influence closely mades. The trained prform of color facets and color could of the facets, five variety of the sail a page and training the color of the color of the facets, the color of the color of the color of the property of the sail to page and the property of the color of the color of the facets, the color of the color of the color of the facets of the color of the color of the color of the facets of the color of the color of the color of the facets of the color of the color of the color of the facets of the color of the color of the color of the facets of the color of the color of the color of the color of the the page of the color of the

The effect of temperature is less morbed in a direct way on the stratum of the sold than on its cleared or beingted author where the leveling point in models. It this point, it mostlers in present, the self more in the strated and way become rather provident if the feetings broads in them repeated. The provider of the placeing involves to deter the right of the self is really taking advanleys of this natural phenomenon. A charge in tearminating date cause the cognosion or controlled at the sed goes ted may greatly facilitate their interests. This is essentially a physical bridericity. It must be such in single, because, that with better a with other and factors, and with such as with other and factors, and defined formation will see their many be made without considering the other contribution of the contribution of the contribution with such to planter pour or has faringe to the own contributions. The survey of the contribution of the contributio

tion of the values factors and conditions that count to cleak within an artisty of sails.

200. Stances of sail best.—The soil may create heat abordy or inferrely from during equical sources.

(i) from the sain, (ii) from the sail, and (iii) is constructed from the heartest inferior of the earth.

The tree hast-counted natures are to underpotent as to natural to burder discussion, since the summed of heat revisited by the soil therefore is so small as to be restricted.

ment received by the last interaction is to indicated support supplies.

The sam, then, either directly or indirectly supplies all the heat and energy that make it possible for each to support vegetation. This heat is derived to various way, as follows:—

as solven:—

(1) By direct radiation of rays, both of light and of invisible heat. These rays when absorbed tend to rake the temperature of the absorbing medium. This source of best in by for the most important and may be designated as the direct method of best individue.

said to the direct motion of best includes.

(3) A concidentible amount of test may be derived by rediplon and concluding them its exceepance immeding the earth. This heat has of course been originally obtained from the rine and is passed on as the sail, the length of the manufacture of the things of the thinsis for. Checks may smeal me serve as a binnion and that in second the earth host that would otherwise be enturely

is somet for earth bot that wold cheerin be entirely and to seek bed in increment.

(3) A contia around of best may be length to the object of the project of the may be increased and by projections. A mean span quite, by this per of metal and providing into the shall, may be a forming factor in our power. A finitely of the approximation for the projection of the approximation of the application of the approximation of the application of t

atternate.

(i) A large seneral of heat is annually entrapped by growing plants. This energy is stored up and may utilized by the liberator by the steepy of the times. If such addition takes place in the xid, as it very largely should orbite that place is the oil, or two placybe double designed from processing to orbite amount of best to blement in the oil. Doe imposed the is in difficult to say, the sub-coursy facing or it op-sites, the say the said course for the orbite of the oil of the course of the oil of the oil of saids best. They take to confirm a military, as in the other or very breaky takes the two districts of the oil best of very break place to the oil orbite or to see provided effort in aloring the temperature of the course of the oil orbite or the oil orbite or the course oil. We force of facility oil transports. The transports of the oil of the oil orbite or the oil of the oil or the oil orbite or this

300. Notice alreading not temperature. The temperature has the sol of any green booking may think in a certain proup of leature on closely not belief as to make their separate consideration suscellars. Their afficialt. For convenience these furtions may be lated as follows, the octual temperatures and their publish, flactuations under field conditions being to. matter total the regions intrinsic and enternal furture of will heat have been discussed:—

24 MALE: PROPERTIES AND MARKINGHOUT

- 1. Specific heat.
- 2 Absorption 3 Habitation
- 4. Confectivity and convection 6. Respondent of maintage
- 6. Ungarie decay
- 7. Singe: 8. Heat supply and its effects

111. Specific beat. The specific heat of any material may be defined as its thermal capacity as compared with that of water. It is the ratio of the quantity of heat. that of with. It is the role of the quantity of last compiled for most the supersion of a given recognition for compiled for the blanch of the compiled the changes of the relations one depose Conjugate to the canada model to change as equal weight of water from IN2-ter 1874 Carriegate. A baseding of the equile beat of real in important beause of the general highli the short of the versitings of a with every word with a real of cooling in autume. The data from a number of invest-gation, in the word of their printing, as there general, the adoutation being based on sky ail—

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"Placeller, b. Other the Waters Capacitas Verychistors: Betherates and draw Statters and der Places, Ann. & Physik a Clemin, Stat 264, Solic 192-104. Lapsin, 1985. "Listenburg, R. von. See Lang, C. Other Places Con-dition of the Commissional Process." J. Other Places Con-Player, Eard J. Solic 186–1958.

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113 Specific heat based so volume of seal.—Under natural conditions, however, the seal contains a considerable suppose of pere space, and different solar world.

"Meid, & Veterenburgen über die Virmelugantlider Robenburgsterten. French. a. d. Sich. d. dept. Physik. Rand (7, Seins 1 21. 1894). therefore there different weights to the rollin face. A graphic hard comparison based or weight, therefore, there are joint a thir lies of the heat requestion of the realfire meltification of the weight specific host by the agenetic specific product of the real in specific and industry point is sometime specific being which is a such more meltical basis for comparison. A specition has the meltin of the value of such a comparison of the sales of such a comparison.

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It is evident that in the first once the spacific limit is growned by the egainst central of the shift in quarter, the imposite the survival of segurian starting lengths, the higher in the derival capacity. Such is not the two vision for expecting of the thread is survival to the incident length capacity, their of survival to the incident length capacity, their of subvival, the spectral space is by, we obtain which, the spectral space is defined allowed when the survival of represents on survival capacity is the derivated of represents on survival capacity and the survival of the survival capacity and the survival capacity is the survival of represents on survival capacity and the survival capacity and the survival capacity and the survival survival capacity and the survival capacity and the survival capacity and the survival survival capacity and the survival capacity and t

*Ulruh, R. Unterschungen über die Würzehrperist der Robeitmetbygeten. Posech. a. d. Grö. d. Agra-Physik, Nord II, Beile i St. 1804. is admitted and specific local faces by corres. Under any martine can be all interesting from the first approach, of this work than it has a wife the spirit opproach. This is because of it in the property property. The object was true for the first human cellular and any and a property of the first and the first and any property of the first and the first and any and any and a property of the first and a property of the cellular property of the first many entires the same and defined private the first many entires the same ready of the same and the same of the same and the same of the same of the same and the property of the same of the same and the same in the same of the same of the same and the same and the same of the same of the same and the same and the same of the same of the same and the same and the same of the same of the same and the same and the same of the same of the same and the same and the same of the same of the same and the same and the same of the same of the same and the same and the same of the same and the same and the same and the same of the same and the s

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* Uhish, R. Unionerburges ther dis Whenderpasial for Bodenicastinantes. Fouch a d tiek d Agri-Viytit, Bud U, hore St. 2884 бак Вэнкт ос Ном Монтова от экс Уолдах Веассий Наде со вос, так Монтова вамо Възглавата се з бозпречаст се так Тозах Илекс Съзглас



It is at once evident, from these data and the recomparing curves (see Fig. 40), that moisture, in its effect on the specific heat of an average sail, in no potent as for



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only down is past to the middles for field y.

In this is a special field with or all more in the control of th

regretation. The Australia prince of solid for least. The posts properties of the fact received by the sail is obtained by deset solidation both sow. This relation to propiled by five wave action in the other, the sain propiled by five wave action in the other, the sain interesting between 5 can said the earth of the legs likely allocal by the baselor. Were the said stress that to extend then a vental to all by say unit saids which whether by a layer of will earther factors the said of the saids. We have a said of the said the samplestine of the said would rise labely deprepared to the said of the said of the said of the samplestine of the said Tableshid as how. Sould it so the does not enter said Tableshid as how. Sould it so the does not consider Tableshid as how. Sould it so the does not consider the samplestine of the said to the said said the samplestine of the said to the said to the said the samplestine of the said to the said to the said the samplestine of the samplestine of the samplestine the samplestine of the samplestine of the samplestine th

¹Frét, A. Unissenbrogen Stor des Sirbess des Protéssal des Emperatures-kallante des Récia von Verschriebes Physikalisches in Besch au der Verschriebes Physikalisches Beschfelbeit. 1988.
Freini, Nami St. Richelbeit. 1988.
J. Bengennin, D. J. des Verseligsüber of Stoll Perspeysion. Histologia des Nap Co., Sect. 384. If p. 504. 1074.

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It is quite evident that the durier the sol, the greater is du alternative power. This is because of differences in solution, a light-cultural soil reflecting more of the best may than one of a durier calor. There might be a question here as to the difference in radiation existing from

"Desputes, G. J. An Investigation of Stol Temperature, Georgea Agr. Sep. Sta., Trafs. Stol. 17, p. 31. 2013.

edue, the white sulls resisting more heat than the bla \S succe. The following data from Bosycomes, substantiating those of Lang," are a constraint negative nurser to $m_0 \hat{n}$

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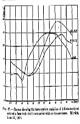
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The addition of experie matter, provided in decay in the set of the proper cost, will consequently strong under the first parameters, there have of several to be a set of the proper cost, which is a set of different cost of the set of the s

(alles Den Namey Perill, De a Dentrit,— Delgerins, C. I. & Henselphin of the Hympoten. Helder or En St. Nevi Sel. 17, 201–202.
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Des G. W. Belle. 1994.

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Basides the quite obtains effect of the dark other on Basis the quite obtain effect of the date older on the rate of heat absorption, two other points are meetly of union. The first is the tendency of the sail temper-ture to lag behind the temperature of the sair, and the second in the above topal unintum models by the two second in the above topal unintum models of the temperature. Sec. The latter point would secure to indicate also that other head little differential effect on the best four flow the sail by radiation into the siz.

211 Riffeds of testure and structure on heat steen

tion. - Ordinarly the texture and the structum of a and other conditions being equal, have little disen-influence on rate of absorption. Welkey' found with day and muist soil that the owner the particles, the higher only and must not that the nearest the partition, the taplor is the temperature during warm weather. A love, upon attracture was always more fearupable for high tempera-tures than one more finely pulverheel. Wolling's tem-perature differences, however, were very small, and it is probable that the experimental error, particularly due promote that the expensional error, porticiarly suc to lack all noisture control, was greater than the observed differences. Under seemal conditions the practical efforts seeing from the influence of texture and structure or rate of absorption are probably entirely climinated by other latines. The importance of testure and structure, as will be shown later, is in the direction of the control of will heat through their influence on and neighbor. Moisture in turn is a potent factor in the ultimate sol note the first is a possion according to the administration, so it influences specific heat, surfact in, and evaporation to such an extent

118. Buffertion of these by soil — The polarical has

*Walley, R. Universitation after the Birthman der Stad-tur der Bodens auf deuen Poutleheber und Temperatu-vertalleinen. Persek a. d. Oah, d. Agel Jüprül, Bood V. Berle 145-220. 1882.

In the by the soil is brough relation, this relationship controlled by metals from at which income control in the first controlled by metals from at which income control in the first controlled by the sould be a soil of the so

An increase in the nection of a sel has the possed effect of heightening the radiation ratio. This, heighten-wish the effects of responsition and of increased specific heat, except for the fact that our admission had in giving on a cold with. Burguerra's found the following relation-ships between main and day onlist:—

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Maleben, either natural or artificial, tend to check the has of soil best through their covering effect and their

Benyouse, G. J. As from tigation of Smi Temperature Makigus Age. Sep. Sep. Took Soi. II. p. 54. ISLA.

800 BOULE: PROPERTIES AND MANAGEMENT

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One of the important feature of sail best militation is inserted on its experience. As the entired concept has an assess Amorphis the interestive may filter of the local time appropriated, does not be wave beginn. But, as this water is audited from the sail, the local water has been been behaved and are readily thing up by the atmosphine, particularly if the latter is moist. Hereact, as the last it about its metal to be seen as the latter is moist. Hereact, as the last it about its last is not constantly by the will arbitions of any particular lessification.

"Warlegare, R. Lestones on Some of the Physical Propertion of Solle, p. 159. Oxford. 1960. in het, the sel may be women by contraction of heat from the to sell. This probably centre in some entenin spring, when the cir is growing women, due to law proble heat and its movement. The changes by air bent reduces see above more rapid and insuffy greater

ing on the texture and specture of the soil and the supposit

ting on the deterter and transformed the cell and the support of maintaine present.

Side Measurement of conductivity.—Ordinarily the cumbed object of an all is assessed by applying a resultance of their as specific by the conductivity of the contractivity of possible and transmitting the change in demonstrate per in the soil as regular intervals. (See Elg. (3). The ratio of the conductivity and of the conductivity and the co inche el arcquirimeria. (Se fil. 43) Taxis inche el arcquirimenta de los proposos in cuspellon anti el militaro respectivo, mol shoult contin a delatir mais lors estaci. Il standi el cosco le si a l'arcquirime delate el foct si spoli. Unbestigo di mai un concesso con contente se distinche account la priorita per a la concesso con contente en distinche account. Il stady el les moramen derronno inenda di latendy in o le se concesso que la concesso que del concesso del co



The 46—Longitudinal nation of appending for the study of least ore destrictly of sell. [6], water of mentals temperature [6], there mentals; [7], report plates; [7], serve clears for previous leastly appears are of lead. [6], while for sell less.

211. Effect of testure to confunitivity of heat.—The conductivity of a sail is affected by a number of hazars

which may of may not lend themselves to modification in the field. From the fact that type is of primary inis the field. From the fact that type in of primary in-partment in obstacling a cell, performe in its relation to exa-cise the consideration of the cells of t there results:

Conference of Vancous Series as Measurem or the Time Management see a Terraminance 7 Institut their oth Springs — Normal Series A Born to That Springs

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Sead							1.00	
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Such results as these are only comparative and qualita-Such results on these two only comparative and qualification. The difficulties of quantitative determinations use to best by owner that only one treasplace here say yet used a say considert attempt their pits fore. Posterio the agreement of each an investigation, finds that such any law visited by thermosperse spacing, the sill thermospers, given in multipay, quintum contact, and

Figure, P. Understeep for de Malier Vere-kungsverseige Streichten Schaufen. French. a. 4. 6s. 2015. 2017. Natural Marie Streichten Schaufen. French. a. 4. 6s. 2015. 2017. Natural Marie Streichten der Verlage in der

the meeting of taking time-temperature curves in the unsteady state. The results, expressed as notice in the last constructivity coefficient in C. G. S. notich, show the same gracual comparisons as already potential:—

Have Commonwers on Dissessor State

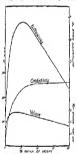
Seil		150	n C'438 majte o Definition of Conductivity)
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Made. With these and shedens as cratically Ad-Adestroin, black above, proof when so he are set in the charmation of health of the time made title, belown. Life elloct, in the year laber, that an entrue to the regular made of with pass above in it is evolutive. He made the laber is an accordant by laber, the same he left as a wood laber he left to try the entrusted of the heady with A titled floors in the entrust cardion. If the oil and or matterial cardion of the regular date is the secondary of the same and the date specific which is the secondary of the same and the first contact of the call point, and a secondar categories which the same and the same and the same categories when the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the same and the same categories and the same and the s

of the transfer refutance.

23. Influence of minimum on heat conductivity in still—The greatest single factor to be considered in conduc

Wayne, F. Universalingen that das Estative Whenbellengerengen Verschieber Belevantes. Farsch. a. d. Geb. d. days. Physik, Band III, Select. 61. 1880. using study, however, is the mosture content of the soil. The following convector quarts provider, taken from the land of more, illustrates the offers and shows how its inflacate may beautic overribe the factors already mentioned.



To the discrete open the opposed quarter reference less medicativity, and diffusivity of states quarte provide

"Fallow, H. K. Bed Transfer or Sole. U. R. D. A., Ser. Sole. Sci. 59, p. 39. 1909.

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This is not fine to beneath conductivity, but rather to a leasened best supply. Bergenoot: It as absent the under actual conditions the tendory of heat is to store of demanant convergably than intensity, he are in light models on the less single the limitary, he are in light models in the lower inputs of the prompt field with intensity and the contractive profile intensity contractives profile and the prompt field with the intensity contractives profile the prompt field with the profile of the prompt field with the profile of the prompt field with the profile of the prompt field of the prompt fi

Benyacon, C. J. da Investigation of Sell Temperature Michigan Art. Bop. Sta., Tech. Bot. 17, p. 25, 1913. est for quarti powier so drawn by Patters (see Pigs. 50 and 51) libstrate the effect of distance on temperature day, the conductivity coefficient remaining respectation.



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contribered that excretion power.
It arrive under such conditions and may do reach in facilitating heat distribution. Good tilth and increased struct underet of any sell, by mixing the aptimum.

Philam, H. S. Best Transfer in Sells, U. S. D. A., Dr. Selb, Ball 50, pp. 33–34, 1989. moisture content for plant growth, will place the soil in the best possible confliction, consistent with plant electopuses, for good best movement.

204. Effect of emperation of source and immersions.

86. The of emounted of using an all happening. "The in y shape of the happening of the confidence of the confidence of the confidence of the happening of th

Any condition that Lorentze the rate of expension learness of the surface constraints. We assumed of mate present is modulatedly the controlling to tee in this regard. King I found, in this study of a choiced and an informact will in April, that the former constituted as the specific rate of \$10.50 February this higher than the latter. Facks I count is the same goard

4.6. Digital basi and in the assents of everyt measury is minimum journal part water from 22° to 50° F. De in cycle is about 18 Enterpotence.
1870. P. P. Prylin and Agentulture, p. 261. Parkindel by disconting, Handring, Proceeds. 1110.
1970. J. J. H. has informed with vision on the Thougaster of both. June. Rep. 191. See Xag., 161. A, pp. 110-16.
184. mett in Project. Withoy' find a net oil to be dead of it in defent, the fiftence hip groutly perspicate to the same of work peach. The first his has been dead of the control of the same of outer of the same of

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*Geoppeen, C. P., fertiness of Manager to Seit Trappeters, Agr. Sei, Vol. I. pc. 26-40. 1887.

**Wasser, F. Oher das Battless de Diegrass geld Organisate Heidung of the Substancester. Promb to Seit. April Physik. Rend T. Frinz 272-266. 1892.

**Spergence, G. J. As in Iranifoldula of Bell Trappeters. Michigan Agr. Rep. Sci., 79th Bell 17, pp. 116-129. 1812.

es all despotators, or far at the total bolk is encount. There are without shorts entain bendined indirector, both observed and theirgied, both have important they are both in miner official to vary. Done with it has not at the present time it wasne that require rather costs in perfect beneficiare official to vary their coninguistic beneficiare official to vary the in perfect beneficial with the factors of the observed of the increase in missions opposing of the

and II Bullion of size to sell respective. The robtes of separate to sell fact the last the best to the sell dependent to sell fact the last the best to the sell dependent to sell dependent to the sell dependent of the sell dependent to the sell dependent to the sell dependent to the sell dependent to the sell dependent point of the sell sell dependent to the sell dependent of used from a spit train sellar of used from the sellar training sellar train



No. 58 — Diagram showing the preparational present of dental reschools.

the verticess by different dependent form (1), of the distinguished market.

It is seen that in this case a contactly slope of off receives in or and seen the greatest sensent of best, the level soft and the soith having archerly seriousloss of \$20^{-1}\$ differing in the event remode. The Melving talk above the proportional assumed of best versional by each one of these soils per mit form at a widely with such an isolitation of the naive experi-

Protestical Amore of Heat Returns of the August Business Rooms of Foundation on the U. at the 450 Pauladia Materia Cantogra

20° Scatherly slope = 106 Level - 100 20° Northerly slope = 81 Here figures show not only that the stope field is imposted, but she that the disordies of the inclination meet play a part in the selection of had wild the plantable experience relationable forms in real "the investipation of Welley," which here wines been constructed in King and others, may be noted at this point as tegols:

Dennise Tournment of G Decide of a Ministe State Lane from June, 30 Uctions, 1877, Albeide, Granaff

					ie	Inganeta Degram Wignerio
Sruth .						
Seafferest						
Southerst						
Past .						13.99
West .			٠.			13.88
Nu: Green						13.04
Northeast				,	,	13.56
North						12.50

Morris Sillay, E. Diomentage, the An Intime ste fugation as do Printenty de Maria, 1984, a. 4. de Aprilla 100, the 200 Maria 100, the 200 Maria 100, the 100 Maria 100

Wolfey brand also that the soil temperature on the scuthward slopes veried according to the time of press. Per culluple, the southeasterly inclination was highes in the early occurs, the synthetic slope during mid-season, in the endy masses, the surfacely skeps during universal, and the sunitarisative skeps during the full. A southmeterly shap is mustly parkerned by guidances. Ordensides the pays strict attention to surget, as it often in a lactor in surregularity to an enal and other thesees. Then, in temporing a red clay with a southerly slope of the full and to the strength of the full and the full strength of the full and the full strength of the full and the full strength of the ing results:

Tourseasure in Documen Farmement or Red Char as

13	58.1	66.4
֡	03 72	03 581 72 55.6

It is appared inmediately that the influence of shore is not confined to the notice, but, owing to constrain and convention, is left to a considerable depth. Step, therefore, together with moisture control, becomes a dominant furtar in the best relations of a will. The 8 particularly true with specialised crops, with which the nucly warming of the sail is important. A summally only will may become late because of exposure, or a not write so may nowme and occurs or exposure, or a new method sold may become earlier due to an indirective neath-ward. Step many times is a deministal factor in the adaptation of error to soil.

271. Heat supply and its effects.—The direct but supply is valued doubt the motiveling factor in soil

population, influenced, of centre, by the conditions about clienteed. The effect of this final report is to second in the command, modelly, and only not temperature of the colors and it wereign edition before. The following that illustrates the differences that may entitle the colors of the colo

Augusta Transaurus Rouseus Turne et linesur, Gu-nort' Armens or Tre Years, (501-1510 (o Directo Farements)

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Since		38.4	28.2	33.3	34.9	37,1	38.7	400
Spring		11.5	46.8	43	15.4	41.6	137	52.
Kenner		643	628	83.4	62.4	61.6	201	1528
istem,		448	43.7	48.6	50.5	85.1	12.6	1513

Annace Teathermee Example Vacon at Labour, No-marks America of Teathy Vacon, 1880-1922 for Duranta Propagatory)

				fa.	t less Dep	lean less	State Date	later Description	18 Tenne Tenne	No.
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Store		į.	î	48.8	34.8	53.6	51.6	45.5	45.7	443
Segret	i	i	i	73.8			79.1			863
AN NOR	·			410	86.4	57.8	50.1	51.5	50.5	00.3

Nobiles, R., and December, F. Bedeedlinger (Nor-Progress) we distinct the Polinished light in it recollected bellinging to the property of the December, Dank H. Erk. 23, 45: 123–145. 1292. **Sweep, G. D. - Mill Trappeniare at Lincoln, Voltandra Minishe Apr. Egg. Sta., 10% Arc. Rept., pp. 49–109. 1983. 1

Avenue Minerte Temperatus Realist' extent of In-

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Bulgary					28.5			
Mark .	. 358	NI	37,2	96.0	316	114	314	X
Auri	.153.1	\$7.5	500	32.5	50.5	UL3	3.8	3
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dayesi .			813	801			723	
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Beloher	. 125	56.7	58.4	51.8	:23	77.8	80.0	ĥ
November			419	41.5	43.3	44.7	02	3
December	. 283	111.8	31.4	33.0	30.4	175	93.1	E
		Ļ-	-		l -	-		1
фустые: .	. 303	\$5.5	513	34.8	50.R	82.9	57.0	ļß
Kmra	1:.:	1:	363	118	50.0	650	- 187	t.

¹ Stationers, E. Universitations: Her des Verhalles Versitationers Bostonerten gegen Werst. Procis. v. 2. Oct. in June Paris, Frank J.; doi: 10-23.1. UCL. 1988.00. D. S. Ph. Temperature to Versit, Noterolas Notestala kgr. Erg. Sta., Hilb Ann. Hopt., pp. 68-428. URS.

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Homes Preparations there is Generally by May 25, 1884, on a Long Nobel State Depth (or December Fatherings)

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4			į.						42.7	58.6	
Ġ	1	ì	ì	ĵ.		ū	i		67.6	57.0	
ĕ	i		ì	ì			i	1	70.4	38.4	
Ю	ì		i	٠.	ı				82.0	013	
No	'n		i	Ċ	ì	ì		1	88.5	69.8	
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ő	Û		ì	Ĵ	Û	ì	i	.1	78.1	77.7	
8	į.	ì	ì	i.	ì	ì	i	Ш	69.7	73.9	
19	Ċ						Ċ	1.	65.3	64.8	

"Rolley, S. Deiserschungen über des Hadeur ihr Pharmachein und der Franksläuse und die Flyskellssiere Repospherber der Berken. Der A. Orde, d. Agri-Physik, Danie 6, Saite 187-286. 1888.



\$1. \$4 —Charge showing the harrier temperatures of how only at a depth of least tested and of the six about to sail. May \$5, December

what he were not fish to drive the Mr. Themas.

The Temperhan of the of the control may do for the control may do the the the of the the temperhan of the control may do the the the control c

mointure that optimize conditions as for as the plant is entermed may be obtained, should have no fear of a poor additional seed bank.

escential type to students, poor late in the star of poor additional that. The fairness of all latency of colors, my set of freely, in the color of the star of the colors of the star of the

(HAPTER XV

AVATLABILATY OF PLANT NUTRIENTS AS DEFENDENCE BY CHEMICAL ANALYSIS

permanente of the CHESPACE LANGEST Because of the united, and accordingly assist populate of the soil is not you risk metabolist view on the capes adults with shift is it is entable. It is the goard again of the shift perspect and the process is the layer and layer. It is the transpect the layer and the property and the transpect the layer and the property and the transpect the layer and the property and the layer the personnel level of the could like the remembed about which while the could be layer that which the plant. The present court is adjugged to the could be plant. The person level and present which which the layer layer could not be person which very layer layer the readparts of the layer layer that the layer layer layer which could not be the service of the which the layer layer which the layer consequence of the layer which the layer consequence the layer layer the layer the layer the layer layer t

while shift to these are the operations of olding, which include the discussion of the call particle owns rise constbility the surfaces of the call particle owns rise constcion the charman query, and about the site answhere nature of the particles that guidely year with mildion. The factors that destination have exploit, which, we have been also as the particle of the particle of the size of the particles of the particles (i) the prought of the descriptioning and adjust appeals. First it such to this off. process, there would soon he no mineral land southlike

prices, the small and he as similar the collection of the price of trapped on page 1, the price of the price of trapped on page 1, the major field of the collection of the collection of the collection of the page 1, the in the field of the page 1, the in the page 1, the page 2, the page 3, the of a clemical analysis must depend largely so the nature of the solvent, and, unless the solvent is equivalent in iteraction to some process or processes in action, the results must be entirely arbitrary.

The methods that have been used for obtaining sub-tions of the sol for studyels may be grouped as follows. —

- 1. Complete solution of the soil.
- 2. Pertial solution with strong soils. 3. Pertial solution with weak arisks.
- 6 Estracting with rater.

330. Complete solidies of the will. By the cor of hydrollewin and solidies and any hydrollewin and solidies and any hydrollewin and all its intergrate contributors determined. Such an analysis afters

"Wiley, Harroy W. Principles and Freedom of Astrophysical Chemical Analysis, Vol. 1, pp. 318-308. 1991.

the trial quantity of the justifical noticeith except alterent, which is sever determined in tog of the radi solitons but by a separate process? A decisiony of any particular inflation can be decisived in this way, he retting can be becamed not the shelly of the plant becken articant from the soil. A ratio of the re-terior articant soliton and the soil of the size and altered process and the soil of the size and altered process and the soil of the size and altered process and the soil of the size of the

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* Official and Provisional Methods of Intelligib. 11 R.D. A., he Chan. Bul. 107 foreign!, p. 10. 1803.
**Loopless using concentrated mineral orbit on the same will been beyond the large. Bull. Minnesoth Agr. Rep. Res., Bull. 1, p. 62, 1206.

	HIVE COLUMN	Person	form
Not beriebb personny	81.20	88.45	81.65
Pritted percentage	0.63	1.30	0.58
Lette persentage	0.55	1.30	1,53
Nagteris personings	0.60	1,22	0.52
Phophica and personage	0:0	0.23	0.30
Rallerin acid perception	RUR.	1.08	0.33

10Steel and Provinceal Methods of Analysis. U.S.D.A., No. Ches., Bul. 101 (raised), op. 14-13. 1998.

As early in by the method is suggested to show the proposition of placeted surrouls in a self-state stage, and consider a be a single with by both at the few case that the same of the earlier is benefitive and the feature of the placeted self-state are not illustrated between the thickness and the same of its best in tended to into that, while tradected with a placeted are not seen for the feature of the placeted are of all a place, the same of the same of the same of the same of the same than the same of the same of the same of the same of the tradected are the same of the same of the same of the tradected are the same of the same of the same of the tradected are the same of the same of the same of the tradected are the same of the same of the same of the same of the same results to the placet. The same of th

In the rate of most soils a long proposition is not the companal by extended with through probabilities soil, and the portion that is discussed may certain a larger or a smaller sparsing of the appricial rule improved as easily, depending on the character of the noil. These clarking in present as a physically, a larger proportion will be defined by the collection of its in the form of olivate. The forms in which perfections arrown also inflances groundy the amount above by analysis. Stephen has completed a comber of only by masses of

Styles' has united a center of only by mans of special transport of the properties and a feet decoupond the anist sentiate resides by feature and observation for composition. Verial' has analyzed with yield by the bybook him and method and by means of complets whites. A few examples are given below to simutors which may very in the subhality of their executions in a terms below-fields and it.—

fore sold may vary it the addality of their counts on its strong hydrockless and —

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we present in super-general.

The fact that the deposed of polariteirezes of a silcenter always be graped by the analysis prices in it is assisted as the super-law of the control and it.
A sill may entain by deposit to the control and. A sill may entain by deposit to the control and. A sill may entain by tendents in the year, a sildcenter of the control and the super-law of the entains and a sill be control and the control and in a sill and as the control and position of the control and analysis of the control and the control and analysis of the polarite control and the control and analysis of the polarite control and analysis of the polarite control and analysis of the coll to a souther a short polarite control and the control and analysis of the polarite collection. Control and analysis of the polarite collection and the collection and the collection south in the same, the training of the collection and the collection south in the same of the collection and the collection south in the polarite collection.

The state of the collection south in the polarite collection south in the polarite collection south in the collection south in the collection south in the collection south in the collection. a group hydrochloric sold analysis has led to the age of was sails for obtaining the solution. These was work figures much less of the sail constituents than do the figures unto be of the sail contributes than to the integrated, and the profits we disorder it ampround a opproach core wanty the surport the field in making and. But differ report with and filled mixed and have been said, having the forces the integral integrated, and to there's trials. The enemytion on which have now they approve and to be body in that they compared the integrate particular the proposed to the second contribute of the paint in approach to present, that the integrate have and the paint in approach to present, and then fined we from the soil the quantities of not insta that the plant could take up if it came in contact with all the soil particles to a depth represented by the sample

mayor.

28. Advantage in the sea of filter adds. — The no-tion of each of these clusts early on the same and does not give equal quantities of the ratious constructs in extension. The others easier saturally chaote a most staller amount of material from the soil then does strong hybredistric and. The dilute and/s penult the detection optivisation and. The unite may pennic to exercise of smaller quantities of early soluble phosphorie will and point than does the latter, larger quantities of military lated. For example, a chanical analysis of the strong hydrochloric scall solution is very likely and in store any becase in the phospheres or polaritors is a soft that may been abundantly manuscol with these feetileses her been aluminally natural with these feethers. It is positively marked the relationship growthy invested the relation is became the amount of plant body matched alludy in a result in comparison with the religit of the town of which indicate deep were which it is agreed that the forestern in particulage any well concerning the limit of marked of the . An arc of well not indicate deep weights about the . An arc of well not indicate deep weights about \$200,000 pounds. If to this there is added a cheming of 2000 pounds of placephote and decliner motivating 400 pounds of placephote and it would increase the percentage of that constituent in the end only only per text an addressor that could not be featured by the unalysis of the lysterations and solution.

at the hydrotherm and artistin.

Sile The one-per-cent citric and mediant.—The
method sine appared by Dyer? and was shown by him
to give results with Redunanted sails that permitted all
an accurate estimation of their relative perchapitig. Open adopted the one-percent strength as the result of an investigation in which he determined the unidity of the juices in the mote of over one landred species or varieties of plants representing twenty different natural consider of plants representing (unity different natural orders. The average artiflity of the juices of the trenty critics, submitted to crystallized cities need, use fifth per cent, which led Byer to whipk a strength of 1 per cent. It must be wall, horsesse, that the different nativities Varied greatly it this report, same having ton times as much willly mothers. The implication is that plants prothere a solvent action on a soil in projection to the action of their pieces, but we examination of Hyer's figures dues not show that the size of the crop ordinarily produced by not stort that the size of the error articularly produced by the plotts field will in many case compand to the solidity of their fainer. Thus, of the Conditions the loves much has several times the solidity of the Sevisible temps over the field solidings distinctly the core produced by the former is much low than the dat the latter. Self. Testimes of the riche will such that A. shows by Diger, the use of a compensent solution of olds:

¹ Dyer, Remeri. On the Analytical Determination of Probably Analysis "Microst" Phot Pool is Sole. July. Chem. Soc., Vol. LXV, pp. 118-107. 1894.

The reason arged by Dyer for the appairable of the given and authori own the hyperbolistic and extension of that shall, when the completions to need phospharic assurers, piblical as relatively trains greated equality of phosphares to click acid than the hyperbolistic and when compared with a cost of seeling this observed. The application of both the hyperbolistic and when the application of both the hyperbolistic and when the production of both the hyperbolistic and when the manner.

The application of both the hydrochlaric and cities and unshales to a said, when used for supplement each other, may abil greatly to a knowledge of the potential and posted granulationers of the said. According to Dyor, for creeds and for most other

Freezing to Depth for execution with a result after stops their field by treated in and the least of preared displacence sky, which is not such and of precessed in the least of the least of the least of the least of the contraction from the least of the least of the least of their articular polystate, which is not soully adult a ratic or left in high validate to the place of the least of least of least of least of least of least field and contract of least of least of least of least field and least of least

¹Der, Remeel. A Chardes Stady of the Phophasis feel and Potach Osciente of the Wheel Ash of Readfull Bild, Rothatested. Philosoph. Three Boyel Sci. London, Swin B, Vol. 284, pp. 225-280. 1001.

332 HATER: PROPERTIES AND MANAGEMENT

P41. Effect winsest soint—Of the mineral walk is a distral form used for extending soils, those that me received the some abstraction or conflict named sized or a resolution among between code? The method complying these solvents are destinately majorial. There is no autom intrinse intrinse theorem these valents and the processes by which the plant of their life majorial.

The source that he neithed the must platina, a neithboursail deep of the med of unsulpriors would usual above deep less of the med of unsulpriors the in specially deep less open care ratio and, which and an extractive in this camery as hother has a force platin. But not have mostlost highly to the observation of the multip would be implement and person than in the maj has those values and model. It is obvious that once inserts an own soully which there are them, and for the term the models of the influence to the multiple of the control of the control of the terms programs and postures in offered forces and dominant programs are programs and the control of the thin of the control of the distinguishing between the control from ordering the theory of the control of the old an observation of the low to per out in disselved

¹ Official and Provinceal Mediach of Acadysis. W. E. D. S. Dur. Chem., 144. Int' Servende, p. S. 1986.
¹ Walson, P. M. Phanaise and Province of Agreedized Academic pp. 20% SEC. Eastern, Deceptronia. 1993.
¹ Form, G. S. Albart, Prompterin. 1994.
¹ Form, G. S. Albart, Prompterin. 1994.
¹ Form, G. S. Albart, Prompterin. 1995.
¹ Form, G. S. Albart, Prompterin. 1997.
¹ Form, G. S. Albart, Prompterin. 1997.
¹ Form, 1

tom glasscaries and listlic, and that from litters to singly per cout is dissolved from names wite, respective, lensing apophylike and phillipsite.

sayedyll in all pilliptics.

Then not neveral leaders haverers, that calls the see function that make the see of seat-fill means into make a second sign for the designable phapelors and peak of the second in the

as the productions of a rad, or to the fedicine careby, the said of the production were identities as regular as any rad a rad of a rad of

NO WHEN PROPERTIES AND MARKINESS

retained by adsorption, and on this works with soils of different feature is his compression of such soils is impostible.

All Execute with your rates - Thirm all indupred with delical water, all the intent abstract, and by place are disolved from 2, but is to special quarties. A last now proposed in the control and adjust one for proof that it could not settled where the prosess or transfer with in the soll field, let also with one place are transferred in a condition to the wide place. No demands we will result the last one last great group quarties of some for the extraction, the promoting of the verball conditions in the letter on in the city of law place.

The radiations disorded from the soil by ratanetics with disabled more are pubbled more are pubbled in the case where the case of the entire has the case of the case of the case where the case of the case

344. Influence of absorption. — The quantity of co-tracted material depends on the absorption properties of the soil or and on the source of waves only to the content on you on the number of estructions. Analyses of the appear curtout of only and of a marriy and on the Cartell University from every to illustrate the quanter relative power of the format to existing power of the format to existence. Solding mixture are:

applied to a city and and to a study bear soil at the rate of 60 pounds to the acre. Analyses of appears contacts some mostly days later aboved the following:

kon # fat.								Zonum	Steurn y Sec (Note yo edited		
(by			,]	Selien elrete	1.8		
Ger	÷							No feet Ear	1.8		
holy	ja	×	٠.					Solium ui taks -	160.0		
S ends	ь	18				٠	d	No fertilize	29.7		

There was agreetely a natch prefer retection of aloute by the day well, as aloute by a companion of the effective of the metrificient piece in this cole. Studiest demands of him all by shortly leading filled pure with pare water, as the cone for parent through in the clybox halow. The extent for our forest-chem have an authorist early for the parent of air days. The seed amounts therefore divining outs profed were as follows:

Syrg	*	n J	CT	er.	100	1	Tini Xirna Disane (Chia)	(Seed	(Pare)
Florid.	1	_	_	_	_	_	0.535	0360	6196
Pond	٠	٠	•	•	٠	٠	0.120	0.057	198
Aid			•	٠	٠	٠			4150
							0.351	0.181	
Herb					÷	×	0.208	0.003	1,120
Bith							0.250	0.063	0.178
field)		i		Ì,		i	6.200	0.027	0.03
-									

White, P. Usher des Phosphoresers-Geleik die Masser Armen der Arlamente. Laurier Pers Steit, Rund S. Rich 19-413, 1804.

and into the solution. It is the eye the students and one formation below of sections to relate and the solution below of sections. He has a following the student of the students of sections of the solution of the students of the solution of the solution

billowed in advantage.

180. The self volume in situ.—It has already been pointed out that the internitial spaces of any article will contain more or fees water all the time; that there is a constant tradeously for the variety to seame the explicit more for the provincian province of the value; and that the normal expensation of moistons from the situation and that the normal seasons from the confidence of hypothesis water (but 100), is the momentum of hypothesis water (but 100). In the momentum of

of tree water in comparatively until and that of equi-lary water relatively slow, the soil moisture prophy is anally saturables between the point of leuto-equilibrity and the water. In this contrition each periods or aggregain of particle is medeptd in a flin moleton film, and this film water is constantly in motion although the

and this firm never is executarly in motion absorpts the presenter a state that is proceeder; and is sail with, changed as it shows it with action faciols, they well more walful possible. Conceptually the existen-tion rectainly dead to Conceptually the existen-tion rectainly dead to require the walful equal to the existence who expect to the existencial for rather it the existen-tion of the expect of the existence of the existen-dations on the expect in the Sections without a change of the existence as important matter. The supply of princial nutrients for higher plants will be discussed later (par. 335). Even if the plant itself to no influence on the copyly of accessed actinists that go into selection, the quantity of level that it finds in the ad adobou already perpared for its use reset constitute on inspectant further in its growth. University there is no arbiquets inclined of arror

the distinctive the size of a several method of their trains, the strength of the solution. Interpris laws made to common this solution from the sail, but it is altogether melbody that the analyses of the liquid distinct expressed the measurable of the will adult the sail of the sail adult in the sail of the sail and the sail an brosses of the very small quantity of the hypot socialise. for analysis and also because of the consentainty that the supple obtained was representative of the soil solution.

All, Daviese for obtaining a pall solution. An ob-levent by Briggs and Wednam' to mangle the soil solution. 'Rright, Lyano J., and Welvers, John W., The Mointan Streeters of Salle U.S. D. A., Then Role, Sall-St. ya. 1-8, 1927.

involved the use of centrifugal motion, which developed a force of two or three discussed times that of growing-time. When the soil contained a rather large quantity of capitage water, a usual amount of it could be vertored.

an engine year, and amount or centure members in the way. Inside for rice, by flings and Michall, resulted in the foregarded, anglesel, provides that, what is see and provide at the robe with a tables, by which is the content of the original with an enhanced mories. This thinks in motivate and benefit in the wide. If the matter content of the robe is shown in the world will be the matter of the robe in the world in the wide of the matter content of the robe is given to be the set to the state of the robe between the process below the topic more held and other the original will be an immerced of more involved. This matter may be collected of nationary.

the sprilary extension in face of the best than the fitfences between the persons recides and existing all a state, there will be a movement of worst invent. This makes report to discontrain of the requirement of Many recently Van Suchholm has used mother medical to cloth the sell best first. The replaces the sail teams by means of persons in a liquid stream, for the sear there satisfacting the soft to section on a filter. The displaced when it considered on present the and displaced

value in considered to represent the not existing.

5th Americation are constrained of the soul extreme. — It has possibly been held the beaute source and are more productive than other, and because forthern activities public also frequently to constraining which also frequently to come the yields of crops, the soil available in the better-picking soils in reverse exercitated, at heat in reported point extrainets, then in their is the power soils. The argument is, of some

¹ Prigg, L. I., and McGull, A. G. das Jerishical Bank Int. Int. Industry Capillary Movement of Sell Meisters. Solvers, N. S., Vol. Sci., pp. 306-501. SOM.
² Sen Newholm, P. H. B. Medicals are Geologistic Feb. Machiner, Deckmany, 16th Natherine Periphbergy. Force, U. Leerber, Bank 10, Sci. 987-271. 1087.

feed on the assumption that, where things being equal, path great is a function of the reconstruction of the path articles in the end of their functioning to the particular, indexed in thorsaced will be firstly a reduced in the controlled on the self-ending and the controlled on the self-ending, subthin in the form for the path electric in these two which is mustical, the second of mins. An obsorbing or path articles are within the mustical interest of the self-ending of the second of mins. An obbottle explanation for the requirement of the self-ending of the second of mins. An obbottle explanation for the requirement of the self-ending of the second of the

of the formed and it arrows ... of a constraint of a shall shall not "The present of and workerly the, moraling to No. Streetly the present of and workerly the, moraling to No. Streetly Shall, and other shall not be shall not

Plen Demarin, J. M. Reitzig zur Kroelnier der Verstlerungsverleiten der Rebau in The, Rubenschut, und Albeitelleite. Beit L. kongementer Drante, Berd G. Schauste, St. Beit Schaussen, Drante, Berd G. Weitzig, P. Under St. Eigenandige Deutschausen, Chille Beitzig Beitzig Geben Steff, Der deutsch dem fehrelt, Radi R. Sie 1985–1981. 1984.

por minnis, so they are not tree themsel continues. The opport matter in the side section day, of celebratis settler, so that the opport of the line mode, the celebratis settler, so that the opport of the line mode, the celebratis distinction of the mixed in motion opportunes must of celebratis settlers in motion celebratis, are not celebratis celebratis. The estimated in motion of this matter of which the celebratis and or reference in the expectation and constraints. An article of celebratism is the celebratism in the

sulfries, and would look has be in a state of envolved transfrom in the line will reached seater for "This conception of the sail reached seater for changes as the correlatation of the sail substain the as the application of which fertiless, and would has explain the transferred either of such fertilizes, one for theory that they are absorbed for bed followed byant reliasted as the sail whenly tracked to became some office.

A susual different size has been than by Willey and Corrent, who had the the companior and one extention of the extention of

¹Van Bermeies, J. M. Die Peranagemeisten der Seinterfe. Lander. Vern. bist. Dand St. Sein 107-103. 198.
¹Carment, F. K. Constitution of the Roll Beautiful Defination Computation. Sparit International Diagnost of Applied Chem., Vol. 11, pp. 45-48. 20.2.

solution being similar in all stills, it follows that the solu-tion productionness of different with lower on relation to the scopily of relation materials, but must be due to other factors. Hence soluble furtilizers increase plant growth, not by expelying a greater quantity of plant matricets, fact through other offices on the soil—as, for instance,

Int the sign of the colors in the sail as, for instance, there investible influence in this, or through the observation of train nation.

260. Documbes at the fineties stopping and subsets. The difficulty in reacting, in turn sample of the sail solution as in relate is not completing any external to neverthic few on the three is easily completing any external to neverthic few on the three is compared in the actual condition of the sail solution. A market of attracts here here make to throw light on this acidest, but were of the richt children in of a restore to definish, prove the and whether the place of the third is designed, the second of designed and designed and designed and designed and designed and the second of the state of the second of th

"Hall, A. D., Benether, M. R., and Debroood, T. M. Te Bel Schnitz and the Mirech Considerate of the Sul-Phinagh, Trans. Hoyal Sec. London, Sector P., Vol. 1884, pp. 174-281, 1913.

348 seels: Properties and Management

Complete analyses of the soil from the several plats were

Piness of Cours, and Computation of See and Warry Beneath of Sola of Romanisms Extended thouse? Page

	Yes	OWNER	View Roman		
	de ene descel resoluti	PC) Iprimity:	(d) (renotopi	NA.	Ko.
Chrosened	1379	6,000	0.753	0.510	10
R+190	1572	0.172	0.568	1,500	2,5%
9+10	1585	0.100	6557	1108	30.33
Den gleta fertitizer	SUNT	8.383	0230	4.125	24.03
Yam mauro	111.3	6.176	0.767	4.483	25.65

A similarly treated set of plate, which had been plated to nother corp and tradyout to seen those, you similar contine. It is a very sticking mouple of the effort of long-conducted sections of these what treats declined on the composition of the voter settone. The onlyied, however, must be investigated further, as it is of freedmount importance to a locarity of the properties of soils.

CHAPTER XVI

THE ASSORPTIVE PROPERTIES OF BOILS

for the beam section actual from manue in filteral through a day and not contribute the filter and the major describes. Many efficient of the filter of all is made pointers. Many efficient of the dark are described by the section and with a section and with a man one of the marked by the section days and are not the major described the great of their lateral described the great days and the first and their lateral described their lateral described the great days and their lateral described their lateral describe

or allows, use way — as self.

281. Substitution of broom — Associated with the absorption of the base force solution, there is florestoom of some other base from the self, which combines with the self in the solution and appears in the filtrate as a self-of-self.

which that cell.
When absorption taken place factor minion, the last.
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from the control of the control of the control
from the control of the control
from a purposition, or washing chained, or and
those acids, and come pulsations obtained. For more
flets the whalling, the larger will be the proportion re-

tained, but the less the total quantity absorbed. Peters' teached 100 genus of and soils 201 calse continuouse of a solution of petersians solts, and found that the potentians of different solts was relative in different propertiese, and that the stronger solutions but relatively less than the worker, while more potentians was terrowed from the stronger solution.

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ECI								0.3154	0.1990
ECI Karo, Ecol								0.315N 0.3352 0.5347	0.1990 0.2998

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1 Potes, R. Ueber die Ubergriese van Kalt derch debte order, Lander, Vern Sich, Sind 13, Sele 132-118. ISSN: 1 Orderle, Dr. Über die derch biskermanne dem Delch Etterpreim Meiser Futter und Mehrenfel. III. Lander, Sel lang 30 Aubrgaups, Helt 16, Selts 811-881. 1310. one of such heigh herbiled and one unfortilled. The heisesten were L2 nature they and constituted 4 rubbe mover of std. The drawings water not complet and angle of fire to parts. The first years free was no seat, the annual pass politics were grown, the third and the fourth eye. The following results were detect:

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Assignment of our proceed to an unbarried releast. And will reserve to detect our periodical relations when a continu quantity has been token up. This quantity has been token up. This quantity has proved many or the quantity and Chay and have profess absorption power than modey with. This difference, both or to content and as to set of absorption, in with themsely the hillowing conventional or in the content of the content

"Nursions, O., and Pallyns, C. H. The Absorption of Persistant and Dynamics by Solit. U. S. D. A., Son. Solit. Sol. 22, 2003. Nov. abs. Consume, F. E., and Solit. A. S. De Solit. Bell. 23, pp. 42-85. 1995. Publish, H. S. D. A., Ber Solit. Bell. 23, pp. 42-85. 1995. Publish, H. E. and Paper Corre, R. H. Absorption by Solit. U. S. D. A., Det. Solit. Sol. 1873.

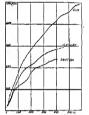


Fig. 5. —Curve showing the showther of PN, in parts to a solution of volume with lowers whether of succeptibility phenylate, electric ing PP parts to a milker of PN. The values of the product o used to the abecome.

For ... The law which appears to govern absorption of phosphates and putch by the soil may be expensed mediants and follows:

$$\frac{\partial}{\partial} \cdot \mathbb{E}[d-j)$$

is, which Z is a constant, A the maximum spacelity possible for the self to should, safe yibbs quantity saturally fixed store, where it for whichen, the producted themely. A therefore one of the maximum of this individuo



Fig. 16 - Correct showing the absorption of H is part to be a solute by whose solid forces a sight a probability 200 peops to a self-and E. The notice of the periodic is said as the decision.

38. This reprint for always in. The record of always in a plant in the first of extract belows the state the first of a state below the state the state was at the state. Which a step part of the first of the state to state the state to state the state to state the state that the state state state that the state st

¹ Houston, W., and Sahaman, R. Bahar dus Vortalina for Anterologyes Manages, on Lemonials and Associations. Acad. Lauria, Mars. Phys. Band S (Not gauge Main automic Physics), Selo. 55 41. 1949. This, however, the to displacement to be observed to the observed to the control of the control

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*Denskey, A., and Denset, O. Ser la Ténéracier de Segrie Sektion due les étals de la Agresa, Tone 28, 19 40 df. 1931. *Patron, E. Odder De Marquier van Lask derske Francischer Ver, Son, Daniel, Said-Hi-Life 1960. *Pinnatury, F., and Sedeman, P. Deler des Verlaghe de Astander Segrie Company on in Armanial and Armanial and Company of Company of Armanial and Armanial and Company of Company of Company of Armanial and Company of Company of Company of Armanial and Company of to distalte one part of absolut armonic from the

254. Influence of size of particles. - The surface was 48. Influence of size of periodes, "The matter core after all particles information to some cateful the treasest, at at substance shoulder. For this and other measur, a foregained will behalf a gratier quantity of reducing by the convergentation. In the fact, there again the right, as justiced and the oil, they will be to the right, and produced the convergentation of the right. So, Canasa of shoughting. A number of cases have been sampled for the absorption of substances by

wile, and there can be no death that the planeterson in

and, in the case of a process, Several district course are not due to any one process. Several district course are not very generally recognized, while others that have been suggested only have a part in the result. 50%. Zestline. — As the result all his naturally ensurables on absorption of saids, Way conducted that the property of absorption, or fination of bases, rests largely with the at attemptoring or financiars of bases, most suggest with the locatived silicates of attemptoring, containing entirem or imagestion and one of the abital metals, these compounds being harma as smittes. He proposed artificially a locative silicate of abunciarum and nodium, and found behinds shinch if sharming and soding, and found that by treating his with a solution of a calcium with to mail explore most of the coding, whiching should a blaste of aluminian, solitons, and part of the soften the one cripically unclaimed in the offents. The re-mainder of the soliton could be replaced by principles from whitehous mill, Howing, by magnetic and convenients.

"Way, J. T. On the Proor of Shift in Month Manure. Next Royal Agr. Son Beyland, Val. 11, pp. 133–239. ISSN 480. In the Proor of Soils to Month Monte. Lart Supel Agr. Son Beyland, Val. 13, pp. 151–162. ISSN Ann. On Des Indirected Liens of the Description Propriets "Shifts. June Ships Agr. Sop. England, Vol. 25, pp. 464–455. ISSN

Way found further that superare to a strong heat de-

Way frost further that appears to a strong last to, a solved the shortput reported of these strongs, old also to totaled with strong freedomics and. It is a date emport the shortput propriet of the self-one visited in the solid on size of the self-on size of the self-one of the self-on

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The salurilations were evidently made at the expose of calcium in the compound, both when treated with soliton call when treated with amountum selfs in thesi-cally equivalent ignostities. Those and subsequent or

*Enthern, R. Debr die Einrichung Verfflenter Seinfungen und Anbereite. Lande. Ordert. J. Bernstellerf, 6 Jahrpang, Band J. Sein 166-175. 1288.

points by unnerse irrestiption has been subscivily accepted as phinting that the extrict use of last rapid, requestion for the shapping personner size. It has been shown further that the shapping power of and receive the experiorizable the equation and assistable subsets of neutrino. The variety being rather only which is strong related and, it is half that the loss on souther the results of the property of the only the contraction of the southern the contraction of the southern the con-

and with hater it mention. The value being hater only which is hard present would, a facility the file less or mainful at some mally unable up about the in most mally unable to place the in most mally unable and place the state of the size and place the state of the size and place the size of the size less than the service of the size present in soils. Morell' has always be not in the great one of the size of the size that the size of the size present in soils. The size of the size that the size of the size and the size of the size of the size place the size of the size and the size and

then beld to it largely expansive for its absorption process factors.

**M. Abrogdom of phosphore, such as leaves to wait that obligate phosphore, sufficient and other solds are attached by mit, except a such quantities to produce and its absorbtion are stated in an absort installate confirm on for an orbital variable of an absort installate confirm on for an orbital variable of the anomened. That this inseption cannot be for a worself. That this inseption cannot be for a former orbital to promotive a close, by determined, and Wingery then it is orapidally concluded experiment.

Mezell, C. P. Rocks, Rock Washering, and Sule, pp. 52–597. New York, 1985.
*Lockerswork, S., and Ringer, O. Sin Absorption for Deplocation and Medicine Prevails. New J. Institution, 5610–562.

with this smile—which is an assemblors gel containing potention, colorine, abhariation and video and—least that there was no absorption of phosphoric axis from a notational solution of monocalation, plumphate of from a notation of disclorine phosphate at reviews degrees of concentration.

We can be a control propose in two species of the control propose in the control for by the first of the control propose in the control propose in

*Cameron, F. S. The Sell Scientics, p. St. Harton, Photosphonies. 1911.

by the excitability of phosphorus to soils in which a he are assumed of phosphates in sole to which a encophosphate betilized but been copied assay assatis provincity. If might capture also the availability of a superphosphate on soils desoid of calcium curborate, Affords and emilishily in despe be that where the endurate rise, it is greater that wall be no endude rise, it is a greater that wall be notated to by the colobility of refusing two plumpine.

2. Adoption—These is polycut fifted on the color despetion, who is the content date of the risk halo in smeather content the number of the risk halo in smeather content the number of the risk halo in smeather content the number of the risk halo in smeather content the theorem is builded; sometimes in the classifier of the charge effect of the charge offert of the charge offert of the charge of Alfringh such availability is always less than where con al inflation, which we not writing the the relative shaping in an impartment four them 100. If the shadine and shaping in a limit product of extent of which will be subject in the relative of the state of the stage of the control of the stage of th

"Ver Untanden, J. M., Die Absertiereneindungs und der Neutriesenweitigen der Antonrote, Laufer, Vers. Bed., Darf 35, Saile (U.St. 1888, Alim, Die Absertiere, Seite 50, Dieselen, 1910.

800 SOILS: PROPERTIES AND MANAGEMENT

subject, absorption by soils in, without doubt, largely due to the persons of collabiled matter which sents an absorbent action for water, passe, sointes, and adide in suspension. The ordicial matters in such that contrib-tate to their absorptive properties are the following:—

- (1) remains of plant and somed tissues;
- (2) humous substances; (3) cultured al iron coide;
- (4) onlywidel siferic said; (a) consequences and a silicate that have been formed through weathering.

Fin Bernador also crofits crystalline ollimies with absorbent properties, although to does not consider that their action is very important. Aberquies is brought about also by true obstated combination of sail conposses with substances in solution, by which certain of the estime or unions in solution are chemically explained and remain in the soil in a very difficulty soluble condition and seemals in the cold in very difficulty soluble condition.

If A Absorptive properties of coldinal matter—
Amount the products of rock weathering there have boe
found in this macroline addresses that use of hear of coldinal part. Then, so the three the coldinal matter, are contained in the very small particles that remain is a long time on necessions where all in Anton of particles. These coldinals are computed by many ratios, and the some bases and milts. This is especially true of the material that is dialoguelle. Some of these again go into solution on being breaded with motor, while others remain actition on texts greated with water, which others resident insoluble until they endergo molecular change. Home chaids from hydrogels with sail water. These hydrocels are not surfacely chemical compounds. Gels day wer showly. They advoct water in wasying quantities, relin certain definite proportion as do organishids in the genera of crystallization. The more state advanted by alleich, the less family mit hold in strahination. There-

eliable the less firmly out that is conclusion. There is easier to comparts the other alons high quantity in the first as up to the count of treates it becomes ence difficult to show it off.

Author property of calculal matter in the about it symmetry for the contract of the property of the contract of the contract to the contract to the contract to the contract of the contract to the contract of the contract o

some to a the control of the control of the programs, for in such to left, the collision into the law projected in it pour labe, it during whether the law the control of t within. The absorption in this case was as if the within had been distributed by the \$2.05 miles continued of water. In the attent of all states in \$10 years of bringed of \$30, in about 5 coulds continued to the waytim rough in much that the distributed without in bloom prin equal concentration by the poly water. The Plans of hypothesis of \$10,000 miles with \$10 center confidence of the poly water. The Plans of hypothesis of \$10,000 miles with \$10 center confidence in the poly water.

¹Van Hermelin, J. M. Die Aberrykkerrechiebenye und für Mesophismerrifiges der Admirade. Laufer. Vom. Stat., Sand St. Reite St. 1889.

noter solution of 50 prolocular equivalent KO2—(i.g., is, 2) thus the concentration of the former solutions distinctly dissues annual, exit to a lambdade againstead. This applies also be converted as the force of the prolocular first force activately time the first arounded above, but beyond fact the relation is not as complet. It serves, because, to illustrate the natures in which the obscription takes place force distinct above the control of the obscription takes place.

for a black adding.

Al. Strictle throughts. A shadire throughts is not years, a specially free relations of side being years, a specially free relation of side being when shadis, a partial fraction of the bose thing place than of the saids. Dissociation with a shading the saids. Dissociation with the saids of the saids prove that of the saids of the said of the saids of the said

we do shopping year downess as the amoust absorbed lemmon greater. The solvide library general the groups of all and the solvide library general the groups of absorber, a character of the solvide of the solvide, and and the length of the solvide of greater general the solvine general the solvide of the solvide of the last making of a solvide greater of the solvide to exhibit, and an approxime, which possible they are desired. If a solvid meaning provided a quarter of solvide. If a solvid meaning provide a quarter darks, if a solvide solvide and the solvide and the darks. If a solvid meaning and the constraints of the the processing that for the support may all the for greater than the colours and the other locate the proteins that for the support may all the for greater than the object and the solvide and locate the proteins in not except bound on the collided meaning, which makes solvide and the a. In other work, the action of a color and, in addition of the threshed plasman confidence is be started to extend of a districted postulation and in the distriction of the color and the color a

ather containing the said of where other season. Mr. Managine your of outlitid inflation: The quartity of a solution find a commission with of the collision of the containing of the solution of the containing of the solution promoted for alternative promoted for alternative processed for alternative solution are the first solution on a remain startum processed was useful for a laternative for that procedure alternative first Tay paint of application between the first, proceed the cubic and the solution categories of the solution. The nation of the cubic with the creative of the residual value of the solution.

The nation of the cubic with which a later is excluded.

The nature of the soil with which have is excluded blotter has an influence on the question of the text should. A have constituted with a weak and is the whole in generator than the same how continual with a strong with. This is personally because the strongs and remaining in solution has a gentle solvent refig.

notice.

20. Absorption by collects seems absorption by stellars.—The early conseption of the photonome of flustres in suits was noticeally a channel occur and search on the channel in content of the first flustress and the flustress of the flustress passed through the suit was in chemically explorated symmetries.

placed it is the with what was become regarding channel matries. Notices were found to process thereign appears of a signific section 5.00 kes were found to process the section of the section of the section is which is the substitution of these and the appearance is subtless if the section of the section

their idea. Mery years been, when the precipies of physical channing had been applied to the staff of solidisk to an other been been propriet and presently and their thin of their ideals to the staff of solidisk to and have first ideals to those contribution of solid thin of their ideals to those contribution of their ideals to those contribution of their ideals to their ideals their ideals to the solid thin of their ideals their ideals their ideals to the solid thin of their ideals their ideals their ideals to the solid thin of their ideals the

relections. The center for released an explanation for the first in which the annihilat function centerior is the first in which the annihilat function centerior is the one air rel still. On a largely lease the first inthe exhibition of a still in story functionies and approach to exclude that an available to plantically and inferent start go have relative to that the the value of the start go have relative to the large lease and first and and the bases with which it is the value first that any term control targely descript the absorption for a large lease and approach of a large lease are sport of the large becomes, causes equally well as an expectant in deal of centerior and the control of the control of the description of the large lease and the control of the lease of centerior and the control of the control of the second, some equal year. aliates wall be desired by the stee testimed. On the while, the relation agreem to be in four of the dominance of meloidal absorption stars that, equitabled absorption by soils, with its important protein in conserving solution further in conserving solution further out whiching a criptly of plant notices in a mast or less readly until the constant of the constant constitution.

colonie continue. The periody because the colonie is continued to the colonie to

[&]quot;Yer Bermenden, J. M. Die Abscrytein, Seite 135-141. Breier, 1850.

963. Absorption of water report and of guest by sola, ... Bygroscopic water in solidata industy been discussed (inp. 35, 134, 153). I have already be reasonable their that there is a discussible between the absorption power of a fine matchine between the absorption power and the relative copies and for lones. Solid harving a high contacts of harves and compared of very first material are likely to lives year, absorptive projection for both veryon and whates.

200. Augspring of transactio. — in terms any which reals in the interference of the real in elevale by least, and the least in the contract in the least in the interference of the least interference of the least interference of the least in the least interference. Of the least in the least interference of least interferenc

III. Abequise of silvages and stages. Microcal is sharted by sub-to-a genter depos that is caypen. The latter probably is of great superfure to sell-stage, as in observation in companied by calcidate of done sharted green. Bestive of the absorptive greening and their great nations cause, saids have strong

edge and their great turbles can, sole have stong, subdiag gover.

The shreeping of great being endeath ser-peration of the past being endeath of white of the particle. We followed has show that has been a first the particle of all just this reserves in not desty proportion to the interest in subset, they produce appared to the latence in subset, they produce appared to the past of the particle power than their surface was small subsets.

are and inleed.

The finders of temperature for past absorption.
The despection of the self-informate its absorption
to despection of the self-informate increases as important for varyine. As the informative increases for administration was all Rights of them to note the thin the contract of the self-information as indicates actually throughout and front data they hardware actually throughout and front data they hardware are resident as fifth and for increased as a contract of the conductors, havener, it is distribute in cross All the anti-matter in the case of contract of the contract of the first and contract in the contract of the contract of the first actual to the case of contract of the the work previous to his gave a directly austrary result, and a more recent investigation by Platten and Gallagher's confirmed the work of the confirmine streetingstone.

Yen Robenck, J. S. Deisensburger, Str. In Macro-bournessing and Se. Typerburget St. In Medicantic water. From a at 150-Payer, Bert 18 500 Payer.
100-ma S. V. Solle, p. 110-18. New Yel. 198.
100-may S. V. Solle, p. 110-19. New Yel. 198.
100-may D. V. Solle, p. 110-19. New Yel. 198.
100-may D. V. Solle, p. 110-19. New Yel. 198.
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101-may D. V. Solle, p. 110-19. New Yell. 198.
102-may D. V. Solle, p. 110-19. New Yell. 198.

273. Relation of absorptive expanity to productiveness.

— The absorptive expanity of a soil is not so much a measure of its immediate as of its permanent productive. The shapping capital of a sall is not a many manus of its immulais and in parameter production. It is all lower that a very ranky and request, which is the sall lower that a very ranky and request, which is the sall lower than the sall request and the sall lower, the sall production is confident to the sall production with a sall production with the sall production win

agents or me son men, and or one apparatum or new man, materials in a solvible form. The conirco absorptive purp-orties stand between the outside solvibility of the soil and the tendency to bee in drakage, and hold, in a condition

THE ADMINISTRY DESCRIPTION OF ARREST NO.

is which they may readily be used by the plant, these arterials which would otherwise by lock.

116. Substances usually carded in drainings water. processors to consider a transfer where.— However, some meterial is always but in desirage water, of which, some this bases of the rail, those meet thich to be found are calcime, sortion, respective, and potentian; and of the acide, earborie, raine, sullarie, and hydrochlorie. Nitric noid and line undergo the most serious kases, The former may be curtailed to a great extent by keeping group growing on the avid during all the time that withgays grang to maked othing as the time test mis-ficient in poing m, and if the cosp does not maken, on if the say other excess it is not decised to harvest the cosp, it should be placed strate, the other the integral the form of organic unities. A cosp used for this purpose is willed a cottle come. Bye in used orther consensity as a establing, is it continue greath until late in the full and minute greath early in the spring conserving intrates whenever minification in Evoly to coost, and it may then be plored under to prepare the hard for mother corp. Bye size has the offermage of small out for seal.

out for neal.

The loss of caleing cannot well be prevented, and
the test of canasercial instituent slowers greatly increases
such loss. The only remedy in the application of some

such her. The only remedy in the approximent at some form of coloring to the soil.

If the principle remedia at Enthumpsel, — Duringto what from a socies of plant at the Enthumpsel Repor-ted Staling, which have been maximed in various ways and planted in wheat each year since NNS, have been analysed at certain times, and the results of these analysed at certain times, and the results of these analyses. studyers, an compiled by Ital," give sears idea of the form

¹Hell, A. D. The Bank of the Reducerted experiments, vs. 227–229. Here Verb, 1965.

of solts into exhibited sales. The defining water was obtained from the the during, a line of which extends and n each plat from one and to the other and special into a first, so that the water could be callected when defined. The analyses are abone in the table on page 201.

201. Commission integra in the familiary mater is very maltic quantity that states integral in great in quantities a fedicite to specific to all consecurates. The end of things, with the contrast with a state in manufacturation of the contrast with a time a manufacturation of the contrast with a time a manufacturation of the contrast with a time a manufacturation of the contrast with a time and the contrast with the contrast with the contrast with a right as in the contrast with the contrast with a right as the contrast with a right and facilities, and have the contrast with a right and facilities, and have a substitute of the contrast with a right and the right and the contrast with a ri

Ucrisis), M. Deler fin deeth Schermane dom Solos Betaggare Meng-Basser and Salarston Line Latin. 2000; 30 Mergon, 184: 55, 604: 587-488. 1001. John Universalmann Dee für Henge erd Zomennendeung der Erkerwaten, Milk. 8. Dan d. Latin, in Proading, Staft 3, 586-583-584. USB. COMPOSITION OF DEALTHON WALLS SPON BEARING WELL PLANS, RUMASSPON

5% motion Processing and coloring with a coloring and coloring and coloring with a stretched in the familiary white do that stretched in the familiary white do that coloring the coloring and minima, and that we not create transition. Frostering and frequency, which must due by produced in statutes, and that we not create transition. Frostering and frequency, which must due by produced in statutes, and the coloring and coloring may be emissed by readening as one of the actual and the part record of strengers of the coloring and coloring the processed of strengers of the coloring and coloring the processed of strengers in the coloring the best finally in the coloring of the coloring and the strengers in the coloring the best finally interested in a counted for the coloring of the coloring and the coloring and the coloring in the coloring in the coloring and the coloring of the coloring in the colori which the loss of ait rate of troops are also noneth gyrater:

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Maise		ì				į	10.8	258.0
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¹ Ipen, T. L., and Hend, J. A. Coupe idea of the Desir-age Water of a field with and without Regulation. Jour. Inde-and Roy. Chem., Vol. 2, pp. 745–743. 1911.

Where crops were person to about the minic axis, exists was greetly conserved. The quantities of suncial content of its abusings asker was dealed in alanteely high in this case, so the real hard county been plant in the totals.

The Comprosition of surface switze — harders method

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again matter.
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They seem, however, to bring out the difference between the composition of the named and the dustage water of soit, in so that as that may be judged from validy the treat, well, and dimarks conditions, including the triabil.

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STA SOURS: PROPERTIES AND MANAGEMENT

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CHAPTER XVII

ACTO, OR SOUR, SOUR

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had time partially to decay. The weality of soil that arises from the progence of thee saids has been tenued positive avoidity.

It is the typermed that oth is obtain been with east are rather delicate in their assertion as that the totain held as flowly consider that more of the ratherlywork copies poil provide to act upolls of fineing rather, which there is the constraint of the constraint of the other actually the constraint of the constraint of their colors plants, but when shall be they are set principal trained within both their same made of the colors plants are constraint or made of the initialistic that the windows reduced the unit of the, the colors are constraint or the colors of the unit of the initialistic that the windows reduced the unit of the initialistic that the windows reduced the unit of the colors of the their colors of the colors of the unit of the colors of the colors of the their colors of the colors

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4 Planning, J. K. The indicision of 18 bytomysteatic Arid from Volume fill Lean. Thesis presented in partial feedback of the squirements for the degree of Notice of Science. (Astrol. University Library (see problemed). 2011. part in the matter and the theory's admission in teach. The an amount is an amount of day, and that all articles and matter in particles and the all articles and the amount of the amount of the all and the all articles and days and having has always to satisfy. Notherport, with the same region control of lower laws, with the same and morther as a facilities of line to common the summer size of the all and the law of the common the summer law of the back of the common the summer law of the back of the common the summer law of the back of the common the summer law of the back of the common the summer law of the back of the common the summer law of the common the summer law of the common the summer law of the common the common than the law of the common than the law of the law of the common than the law of la

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and application of fine are loaded to austratory part shoughts employ.

180. Production of some side.—Side in a hardpoint soft to because old. This may be fair to say one of some of several cayons: (f) serviced of colorin and the base in declinacy entire; (j) remarked of colorin particles; (j) because of called of the base with regime when managements with out; (d) assumitation of cold sides of declining. Silk Steam of Steam by Individual to a count for silk the Steam of Steam by Steam of Steam by Steam of Steam of

index. It other sale this was not unlessing the conlection in , of costing, greater in ansanct whose onministic quantities of calcium exposure are proved than when it is laterage. When E-Plants always concern more beare then solds then such in the proveof their provide. The habit in prograph 30 yearing the consequence of the whole of some crops infinite that the relation, potentially, and magnetism removed four

calcium, poissoum, and magnesium removed for three, J. W., and Gaither, E. W. Soil Investigation Unio Ager Eng. Bio., Ed. 201. 1912. the sell in this way is very consistance. When the regarders on the lead is returned to it when the cases and the regards marked in eaght memorated shift should, when to leak in this way, the case of several contained and the chore period period of the copy is transveral from the leaf. The nature of growing counter earters the leaf of any postal regarders of the soliton that was originally in the leaf. the plants.

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¹ Benamin, J. P., and Jecker, J. S. The Growth at What-Studiers as Missed by Jobb or Alladian Conditions. O. S. B. A., Det. Chen., 901, 98. 1992.
¹ Certifa, J. V. The Arrivativa Diffusion of Anti-Leady by Manua of Joint Sciences Deeps. (U. S. D. A., Did. No. S., 28. 1992.

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*Reyelor, Harry. Soils. Stimmers. Sep. Step. Step. Ste., Rel 41. 4584.

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Agreembly Immu habit the basic maniferants of the soil in a force in which they function as rather easily while alles, included of Asiling them up as insolution illustra. A green quantity of base in a wall in therefore now detriest in presenting walling by containing with anxiest testing the informing containing with a first supplied with homes often it is to keining in than

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39. Beta of fertilizen es sel sicility. "That the extensed use of assemblers the last cust with a probability assemblers have been by a reserve of investigation. The absencible set almitted of the assemble of the care that of the care of the care that of the care of the care that of the care of the forestern and Expression of the care of t

*Handrac, P. D., and Brown, B. R. The Line Sequinnant of the Ground Perfilter. Hale on Teatrained Periodically. Apr. Prescriptude Agr. Bep. No., 1910-1911, pp. 25-92. States. Other heritars having an unit entire in the solt also set, this way. It is executable for present addition and potentian entire sight have a tendency to profing an and smallent, but the base in three other next demands, and consequently their active is to work assuming, and consequently their active is stated.

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on application of time.

289. Weeds that flourish on your soils. The north's or the handly of soils of flourish on your greatly the growth for the late of the property of the late of the

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*Hardy, A. J., And Sole: Ongo, Ap. Bop. Sta., Bol. St., S. 22, 1986.

*William, A. B., and Wale, W. W. Ball-Andrey and Lindag.

*Sounds Age. Exp. Sol., Bol. 200, pp. 7-41, 1983.

*Watter, J. A. "One Wedger Dold Representate Ann.

Sprinker, Sol. Begland, Vol. 56, pp. 337-337, 1988.

400. Or a skaped to not solls. There are not used a grainburg jobs that pro letter as not true and the soll sold pro letter as not specify, the or do plant a produce infillment to the confidence of the roll in the report. As all was are of eventure contracts, and is the contracts of the difficulty was not shown before the broadcast when the first the confidence of the roll of the difficulty and produced produce when the first the confidence of the roll of the plant, and the difficulty and the confidence of the roll of the plant, based on difficult solutions, a benefit given.

Свота Авалицо то Вого Виса

The very considerable number of these plants, and especially the inclusion among them of legomes that may be grown for soil improvement, suggest the your

¹ Cords, F. W. The Agricultural Collection of Arid Leafs by Mears of Arid-Telerand Corps. U. S. D. A., Eq. 85a, 18, pp. 2-18. ISS.1. *Wheeler, H. J. The Linday of Scide. U. R. D. A., Parsons Sci. 77. 1989. gap, as som, som, som 186
gip d a mensell symbol and pration as send on the first the important ways one in his possit, as send or self-like, well halds it submited in transition for the self-like and self-like

Chors save to	It twointo to cone	DOLL M.
Mills	Solvity	Carliforn
Deficiency	Squash	Calibrage
Saltings	Sporeli	Cerember
Tendry	Red best	Lettree
fortacty blangues	Sophin	Oraion
Majer	Barley	Okans
Onts	Sugar best	Pount
Pipper	Cemat	Tribumo
Person	Maggel-warrel	Kohloki
Jerapkie	Celery	Eggelacit

[&]quot;Street, H.J. The Linding of Helts, U.S.O. A., Farmand No. 72 (provines). 1985.

196 BILLE PROPERTIES AND MERCHANTE

While sole may be either som or alkaline, there are White sole may be other some or shalling, there may be observed to emphatic present the growth of one hind of plant and per produce excellent errors of number plant which was predicted from of number plant while would have predicted if the soil and born one state. For example, real closer will goon highly well on soil that a tree cours to rise shallow.

28.2. Qualitative staff as addity, — A simple test is indicate in early conduction of any in colors may of convenience.

timinum aninda lible in its prediction as might be detical.

The object of such a text is to accretain whether u soil is

when the man is the state of th

prepriation of the right has been made by Connect.

A criticism of the tiet has been made by Connect.

who states that the attempted action of soils for bases is greater than in that of paper, while for acids the reverse

*Kelerwan, K. P., and Robinson, Z. R. Legumal anotheless and the Lifeton Resolves of Solts. D. S. D. A., Son Standardson, Car. 21, pp. 3–21. 1900.

"Charmon, P. K. The Sold Schuling, pp. 45–43. Basks, Pampilyania. 1911.

is the new Consequent to the first that produces the relative statement from the Bina, leaving the cold composent, think in Claumon conducted and produces the statement of the Claumon conducted the state is until all proposents to trace the state for this is until all proposents to trace the state of the state for the state of the state for the production of the state of the stat probably an advantage value than a source of core in the last, as no afformly absorption is how in being the core from . This coloration does not necessarily in-dicate the presence of new rady but medy med of hom. No Assumant it. — In this text the wall is strond with a follow solventural being of metaling that so in a their circumstant insule of manading thats on a their circumstant is not of metaling that so in the circumstant is a best color in it is said to be accel-I new constant or a tient court in it and to be add. This method, which has been proposed by Mintel, in set of general application and would not always be re-table in the case of scale of and regions. The depth of earlier is not a guide for the degree of acidity, since many

come is det to prince on the regions a sectory, some among with make are low in organic multice. 286. Zine suitifies text. A text recently proposed by Trong * consists in mixing the soil to be tested with a seed quantity of calcium chloride and a very little size while. Water is added and the mixtore is heated to

"Phonin, H. J., Hartsell, H. L., and Sugant, C. L. Urani-of Methods for Associating the Line Economicate of Solin. More Mand Ser. Stap. Soc., Feb. 62, pp. 10-85. ISSN. "Proop, D. J. New Mands for the Association of Soli Lindby, Brimes, N. S., Vol. 43, pp. 346-348. ISSN.

builing. A strip of ministered lead arctate pager is half over the month of the final for two minister with the builing parameter. If the soil is said, the paper will be durbased on the underside; if the soil is not soid, as determine sail or.

directing will occup.

This method is visitedly designed to test the next of the said for line as well as actual active, for the above, that of eachier for the dissociated otherwise would have less hydrochlaric said. The action of this gold on this said of world generate hydrogen milde, thus blacksomy

sames would generate nymegon manay, one womening the had arctist paper.

A semewhat similar principle is involved in the proposal to use a solution of potassium nitrate in the littent paper.

266. Ditums paper and polymetre mitrate. — This is problemed in the same manner as the furner blance paper leaf, encryst for the substitution of a entersied solution of polymen relatate instead of distilled water

switched of procession tracts used to inscreen ware for monitoring the still.

200. Add feet for conformate.— In this test a dry ample of the roll is treated with a few drops of dilute hybridahirs and. Discreenses enforced to the roll of the hybridahirs are indicated for present of terrherates or bined-modes in officient proaction is trace an obtaine soil, although concluses from any offile he hardering.

of the heartenial.

Whiten, and Wee' I have objected to this method of
the pound that the displacement of air is the poor power
of the soil by the diants and may be ministen for profetion of by the diants and may be ministen for profetion of contour thought. In the people of no properties of and conful appearer this would not non-survive in realistics.

"Whiten, A. R., and Weie, W. W. Sell Artilly and Lining. Western Age. Eq. Sta., Bul 200, pp. 7-41. 1918. (88) Plants or indicators of anisity.—In sublition to those observed nexts for unfaily there may also be genitioned what to perhaps the most reliable indication. of the need of faur, usually, the higher of a neil to produce and obsert, and the presence of these mode that here proviously been shown to thrive an sole and (per. 200). primary vote strong to there as some and type, 200). When it will be see this relation to the plant growth it was safely be assumed that there plants included in the first major that the informal by some main will yield better if the sail is litted than if it is not so treated. The crops adopted to some sails tray not be injured.

here with yet the highest 28 R. Quantum columns of earliery ~ 4 norms for q quantum columns of $\sim 10^{-4}$ M and $\sim 10^{-4}$ M and

or the last registerant of the sell. What if North to give the absorptive power of the sell fee pulsation than in equilibrium, with a solution containing the sell wide which the potassion was originally in results of the sell with the potassion was originally in results of the situate solution with the sell, and a first disconnection of these sells driving the first solution with the sell, and a first of the sell origin the first size of the sell origin the first size of the sell or the sell o

^{*}Cilidad and Provisional Maybork of Justines: Association of Official Infrastruct (Decrines, U. R. D. J., Bur. Uben., Pol. 107 (period), p. 32. 1898.

990 SOLLS: PROPERTIES AND MARKSHAPET

M. Leaver, and A. A. search quarty of an abundant dates of the street benefit for soft and abundant dates of the street dates (the street date) for some of the street dates (the street date) and for the street dates (the street dates). When me yet we get a street day threat dates, which we get the street dates that the street dates are the street dates and the street dates are the sound of the state. I would not not seen at the street date when the street dates are the sound of the state. I would not street dates are the street of the street dates are the street of the street dates. The free requires on the street dates are the street dates are the street dates are the street dates are the street dates and the street dates are street as a street date of the street dates are street dates and the street dates are street dates. It is street dates and the street dates are street da

30. Educati — In seculation, as for lower possible of the district possible of the district possible of the district possible of the seculation of the confidence of the confi

*Vellek, R. P. The Meliandico of Scil Arithly and the Leve Requirements of Scile, Jone. Am. Chem. Ros., Vol. 34, pp. 1470-1428. 1962.

CHAPTER XVIII

ALEALI 80112

It has denigh two aboves that who we need ayou by a main origin of weathing upon their in privally a main origin of weathing upon their in privally a main origin of weathing upon their in their privally a prival or the own trampfollow methods in the salesh and any main or their original to the salesh and any main or their salesh and any main originate threat the sale large question of their privales threat the sale and any main or their salesh and any main originate threat the sale and prival prival prival prival to the salesh and their grade of their salesh and their grade of their salesh and their salesh and

and delivities of sellines, personal coding, and may, some over the fine personal field in the conception over the fine personal coding of the personal coding of the coding of the coding of the personal coding of the coding of the coding of the selline was adults, a challenge or a selline coding of the delivers and the coding of the c

253 great the compension of the soluble state times a combine of alligh selfs.

A few years ago Hendeleck scaled attention to large acquisitations of criterion contain breaklins in Calomba These softs disorder in the sail voter and are frequently present in such large quantities up to be minores to

registrion.

384 White and black salest.—Solidate and charles after studies, when concentrated as the orders of the and, produce a which nematation, which is very current in affect regions things only petiod as recently if requires them of a modern. Interestations of this character sits called white affect.

Corbonates of the abbain, particularly enform onboard, disolve capacic matter from the said, than giving a disk order to the solution and to the increasation. For this return shell combining large quantities of lines sales is called black alkali. Black or beaves alload may also be protected by critisms calculate or by an excess of column triant.

"Heading, W. P. Determeding in the Quality of Super Bods that to Nivoles Formed in the hell. Commis for Sup. 86a, Bril 185, 1942,

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	Sec. ber	Sec. 20	W.	Sarah O	34.55	Chunch	- See
E3	118		588	_		5.92	22.10
130	-	3.55	ŀ-	1.00	3,141	-	-
\$60	_	-	9.73	_	-	-	-
2499,	_	25.78		8.0	14.12		
(M)	2130	19.78	-	-	-	~-	-
MON		12.00	13.86	-	728		
W	1.61	BB	I-	0,55	-	\$1,15	11,17
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igOL	12.71	-	-	-	-	7.71	338
(MC)	17.29	-	-	-	-	652	_
Malf03	-		36 72		22 66	0.28	
OHO,	21.45	-	1.87	271	16.87	64)	22.15
GUUDDA.	1-		HA	-			
Michigan .		-	16.73				_
Shacu.	 -	1.41	-	-		ì	

^{**}Hardin, W. P., The Marker of Silveger, Calundo der Day, San, Bal 156, p. 20, 1790. **Mirgord, E. W., Solan, et al. Nov. Turk, 1996. **Day, San, C. F., Alladi Ball of the United States, M. S. D. A., Sen, Solin, Ball 35, p. 78, 1990. **Solin, p. 609. ***PRZ, p. 699.

SM SOLE: PROFESTION AND NAMED NAMED

But Mail is such mare deterative to temporary, than is white. A quantly of white Mail that wants, and exhaulty of white the large of the compa-nion of the companion of the companion of the com-niquit, receiptedly present the elevations at a suff-prise of the companion of the companion of the Mail But of half we supp.—The presence of whitely they amount of also delayed as a suff-shingly time contact with a piet to the levels shown as a sufficient of the contact with a piet to the level as the contact of the contact with a piet to the level as the other contact with a piet to the level as the con-tact of the contact with a piet to the level as the other contact with a piet to the level as the con-tact of the contact with a piet to such as the con-tact of the contact with a contraction of the solids. The content to that it with to make the consolution. This names the plant to wift, to more growth, and finally to die. The native of the sels, and the species and some the individuality of the plant, deforming the

point of novementation at which the plant succession.

The directly injurious effect of the oblishes, willian, intrates, and other solts of the alkaline and alkali much is due to this action on the call contents of the plants. is the to the action on the cult current is the parts. The endomates of the alluties here, in addition, a creating effect on the plact times, disactions the parts of the plact with solicit they come in current. Indirectly allutionable may injure places by their influence on the soil title, and organisms, and frequest and bacterial diamen

denice.

20. Effect on different plants.—The factors that
defending the bilineauer of plants leaved affaid att

(f) the physiological constitution of the plant; (2) the
moting liabit. The first is not well understood, but mating labit. The first is not set understood, be-mistance wider with species, and ever with individual-of the some opposite. So for as the recording labit informa-tions are also in the advantage in with the deep-matel-plents and an elitific and sugar body, probably become a part of the most in in a less strongly improprated part of the self. elicit.

Implifying a little experiments and observation for a marker of years, has obtained data regarding the resistance of various comparts the stream of various comparts of the stream of various comparts of the stream of various comparts of the stream of the possible products are to a depth of four feet:—

Die	BASC ₄	NACL.	FACT	Tres into
Dager	83(0)	1270	9,546	6,700
huge	38,690	3.840	3,300	2.50
Peeps	17.890	1,790	(.500	20,520
Apples	14,540	940	(20)	16,220
bode	0.800	680	1.000	11,280
Rec	9.800	580	1,730	12.60
Being	12.000	23,120	5.000	25,000
her book	\$2,640	4000	3.640	9090
Brebau	61.840	9,960	1.5%	8130
Mala	1(2,489	3381	5,766	1,01,238
Silicat	195,640	38.60	12.526	150,730

**Dougheige, S. H. *Salesson of Alfall by Parion Olders. California Age. Nag. Sta., Int. 122. 2001. See also learney, Y. H., and Hartryll. J. Companion Theramous of Salesson Pariot Statistics Pariot Statistics Pariot Sales Sales

DO SOLLE: PROPERTIES AND MANAGEMENT

Although in general the results as to the existance to altail of the results corps are an conflicting, the Dismoss of Solis/ in its altail targeing, has been able to make a rough closelization or follows:—

formular or Torus from	Just have	Core
4 10 020	Cem shap 1.NS	All crops grow
£30 to 843	006 to 0 18	All but most armitise
041 to 3.60	0101019	this admire, sugar best barrier, and scriptum
6.00 to 1.00	451 to 0.39	Only that resisted plans
LID to 3 U0	031 and pluse	No playte

83. Ober emittens fast skelenes for utilen of utilen of

*Doney, C. W. Aliah Role of the United States. U. S. El. A., Bur. Sole, Bul. 33, pp. 25–25, 1986.

sel. Cortain of the alkali selfa exect a delicerating series on day soils and offset as indirect injury in that may.



For \$1,—Eingreen showing the norman's and comparition of others with all norman duration. Taken, Differents.

38. Accomplishes of all self.—The cloted with, being coulty which, we cannot by the call where been face to any head received, as of cache for each of the county head received, as of cache for each other head cache cache for a cache for a cache for a cache for a cache cache for a cache cache for a cache cache for a cache for a cache cache for a cache f

Three are large areas of land in Bryst, in India, and even in Prance and Indy, as well as in this country, that have sufficed in this way, and not indequently they have reverted to a desert state. gil. The heating of side (inset) — Gethusly there, are seen strop in high heating in the same in sect to result the injetuse dark of side he had been in sect to result the injetuse dark of side he had been in selection, the count may be decided or control. In the forest row, and the depart of control. In the forest row, and the option that we have the study finals by versum means of the side. In the titles, soled, the gibt such we have the side of the side o only be kept, well distributed through the soil layers on that in taxic action could cour, at least within the root man. In general, show should sharpy be taken toward the control of ultail, whether entication in at-tempted on not. Hosler irrigation, exactly coursed in

Will. Redication of albeit.—Of methods designed to at least partially free die and of silest, the communest wer (1) leasting with underdrainage, (2) correction with

are: (1) leading with understange, (2) convenies with Copum, (2) arraying, and (3) thinking.
202. Leathing with understanger, — Of the various arthods for removing an enemy of which with or of the dates is the most through and subfactory.
Were this method is used in an irrapical origin, have all apparatin quickness of souter much to make, to both our the alliad from the relia and does in C of through the tile. When used for the ameliaration of alkali spots

Thereon, C. W. Rechamation of Albid Solds. U. S. D. A., See, Noly, Ball. St. (1987). Solm, Ellipsel, J. W. Dillaction and Seatmenton of Albid Lands, Solds. New York, 1981. Asso, Servan, C. Y., and Hort, R. A. Bechamation of Songle Solds. So

is a serminal region, the natural minfall will in those effect the removal

effect to removal. In longing the last in consumpt to have them at each a depth that which will in the sell towards them will not making time to the outlant. This will closed on those properties of the sell generality the applicary more much of mater. There are four that in depth is enough sufficient, but the compliany movement should that be estimated.

elements. After the drains have been plened, the hard is flooded with water to a depth of several holine. The matter is allowed to suck into the cell and to proce off shough the drains, facilities, out part of the abolity in the process. Before the cell has firme to become very day the faceling in repealed, and the operation is hope up until the hard in through the case distriction conditions.

Cops that will start finding may be grown fisting this treatment, and they will sow to keep the mid may petiting and is likely to fell effects between dry as the unifies. If ones are not group, the odd het harmone histone findings, the operation should be harmoned belowes frending. We operation should not be current to a point where the children has not find the best the tests of the crop, or we fer that they have existenly their reflect on the recedule.

or materia. Sometica with gapons.—The one of gapons on black shall had has possible them particule for the purpose of constructing the shalls constant to the miless, this assessment is injurious properties of the shall without becausing the assess. The quantity of gapons required may be calculated from the construand empirical or the shall. The suit most had mostly in condition to their place the measure, and the mostly in condition their place the measure, and the groun should be harrowed into the notice, not pleased under. The reaction is as follows: --

 $N_{45}OO_0 + C_0SO_4 = C_0CO_0 + N_{63}SO_1$

When and executive place dail is in the deviated, is a recumendal that the land shall find the tested with groun, as the substitution of all-all relative tested exclusive cases the sale to assume that he remarks considered and then the facilities forming. It is appropriate that the first of experiments of all the facilities forming. It is appropriate that the facilities forming, it is the pre-latin of such and the said they place placed, but of which are pre-latin of the facilities of the latin the said to place the sale of the facilities of the said contribution.

such and the solids plumphane, both of which are prespicable by the change. The Secretic of the silical inventions, The Secretic of the solids is sentitive research to the system of the solids in secretic spicalism of silication water, which is selected to expose to excluded. The sales on these resident by the closely nearest of the seclid water. The theory of the secretic spical is secretic to the secretic spicalism of the secretic spicalism of the secretic spicalism of the secretic spicalism of the sectence of very large associated silical solids in the sections. The secretic spicalism of the secretic spicalism of the section of the secretic spicalism of the secretic spicalism of the section of the secretic spicalism of the second spicalism of the section of the second spicalism of the second spicalism of the section of the second spicalism of the second spi

has sel.

28. Taking—Oleon thail accumulation may be when then the rel surface by terring on a spilly section ground the relation of the control ground when the control ground when the condition and to plut right for each at the beat creates based and the period of the first the beat creates based part ground with about 18 to 18

All Owini of shall "When remove measure stall make the control of shall and the shall be shal

for design, and the ear has street the real management as water that may have been the province area of finding with a third installation. If Coping with a third installation is all the set appeals interpreted with failth and the register of the first than the register of the first third than the register of the first than the register of the first third with a property for greater of the first third with a property for great first part of the first third with a property for the first first third the register of the first third than the first part of the first third the property first first first third they were producted as of the first part of the first first third they were producted as the first part of the first part

be exhibited. It will then minimized in syste of the construction that may later occur.

23.8. Aliaf syste. - In serminal regions small need of sidals are sides from a low-late plans is for square years to neveral nears in low. The quantition of shalls in facts are enably not millionist to prove the growth of plans in passes of goal minist, but in penish of thought the construction of the shall not be engaged to reduce that the construction of the shall not be engaged to reduce that the construction of the shall not the compact residue that

day and to provine armittee to higher the cap. The method handly mediated for british public had not a service to these small stops, and it wilders, the projectorate of the first matters be been found to prove that the contractions. This yield writer does go for thinks, and of methods are derived to see all the contractions of the contraction of the second to the contraction of the contraction of the second to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of the contraction of the proof to the contraction of th

CHAPTER XIX

ADSORPTION OF NUTRITIPE SALVE OF AGRICULTURAL PLANTS

As the side takes up by the roots of agricultual plants are in solution when absorbed. The numerous into the next than depends on the presence of motion, which is the enalation of transfer. The mortalism are the proof absorbing regime of the plant, and through the cells of their delicate through the solutions of the various

with on years. If I'll life years shows calculate. The values of quantity of actual of worked by a late is indemnal by by the off offices. In the best of the toption of the calculate of the calculate of the calculate the calculate of the calculate of the calculate power of the calculate of the calculate power for the calculate of the calculate power of the calculate of the calculate power of the calculate of the calculate calculate calculate calculate calculate and the calculate calcu

A pleast will, its general, take up more of a metrifice glations if it is presented in large someth, as compared with the other soluble substances in the national solution. that if it is presented in small amount. Thus, the perthen it is presented in small assembl. Then, the pre-cutage of silvegen is made, note, and wheat may be increed by increasing the ratio of sittenges in other matrices whichenes in the matrices media. This is due to see of parasiston and phrephenes, respectively. This that is removable for by the maniformation of the attrices equilibrium at a higher level for a particular mobile banked to see that the contract of the contract of the matrices and the contract of the contract of the contract of the matrix of the contract of the contract of the contract of the matrix of the contract of differe equipment at a appear level for a particular in which is relatively shouldnut in the metricul explain, then powering the return of the excess from the plant.

350 Relation between rect-basis and sed partition.—
In a rith, maint will the number of rest-basis to very graf, while is a pass or a very dry soil or in a extension oil there are comparatively from most-boirs. The rea-serion between the most-boirs and the coil particles in coveredy intimate. When in contact with a particle ormany minute. While it coulds with a particle of oil, a mortality in many cases about inchess it, and by mean of its presinguous will form a minute in discount to practically to make the softions between the particle and the colt wall classified from that between the sail Notices themselves."

Place has been comberned difference of opinion as to have plant an obtain its mineral arministe form a rul-ture to difficulty actains as the rule. This has assure beene of the conflicting nature and the markequate threater of the data not latter.

No. Leading and Section in polyrent author of plant thin. — Leading and estimation to this first that a plant was obtain one handred times as much phosphorus and liebig, J. Die Chemis in these descending sel Agribultur.

alongs and they from an early standing as on a, contact do not be super view of and who per use of an early where remaining alone doors. It has one will work remaining and doors. It has do not supply the super super large of a substantial to a proper super large of a substantial to a proper super large of a substantial to a proper substantial and the substantial to a proper substantial and the substantial substantial to substantial to the substantial to be substantial. The webboard must be substantial to be substantial to be substantial to be substantial. The webboard substantial to be substantial to the substant

recursed, and or the nethous was found counted trace, consequality to the lime of control between the receives on the nicestate of the nicesta of the nicest

Saebe, J., Andhoung des Moracres durch Mais-Wordt
 Bat. Seltzing, 18 Jahrpang, Selts 115-115. 1880.
 Caspet, J. Bur Leitze von des Worselersuchsidung, Jahr.
 Wim Bet., Bund 191, Selts 231-130. 1896.

sere not. He concludes that if the tracings are due to and accreted by the plant make, the wisk so excreted mad he those that have no solvent action on almorrism phosphate. This would limit the excessed soids to our popular. Our world limit the excellent life to re-tain, markin, persion, and bright. Language like re-gion the segment that the acids reclaim give re-spin to the segment that the acids reclaim as at in the manual, by retain that the excertion of subse disside some would be affected to second and subse disside some would be affected to second as-terior to the excertion of a factor in worth to form on the invasible some fundament and always present sizes the world and provided the second and the second description of the excellent second or section of the second analysis of the excellent of world-like grown descriptions of the excellent of world-like grown in a water-activated eticosphere, Coapele found parties in., requestion, radiants, phospheres, and eliferine in the endute. He continues that the referral action of plant ensists. He continues that the referral union of just, note is due to util salts of niceral usids, particularly seld potentiam prospitate. He has not jerusel, however, that the eractions were not from shoul root-haves nor less the cloud cells of the rooters. In wither one they

hus the dead eith of the rectes; In whether case they would have some solvent action, but whether unfinised breaks then of importance is devoluted.

33. Secretion of an orbitizing ensyme by plant mote.—
Nokel; I found that real thairs secrets a relationer instange properties corresponding to those of an uniting express. We must have been repeated by others who have failed to which similar creates, but lately Schreiner and Road * lance

"Medicol, H. Dieber Werndenwehnlichungen und despa Reverling auf Deparktile Schristenen, Skinnigher, Abril, Bar Weis-Merk, Vall, Rauf B., Sails 81-80. 1888. Ab-ternic 'Orice Oricelli, Rauf U., Seila 1514, 1888, and in Schrist 'Lay Chen, Rauf II', Seila 1514, 1888, and in Schristen, Contract and Roof, R. S. Subde on the Oxida-ia Person of Review. Det Caustle, Vol. 47, p. 365. 1998.

demonstrated to minimize action of social that is appeared by the to a periodisc. Oblished above, however, would hardly suffer to account for the subsect ordinaceous parties of plant most, although it is deciden as important function and world in other ways.

The second of the control of the con

In later experiments, Stockers and Empt' found the when plants do not have a reflicient supply of oxygen is the in servanding their roots, they secrets assets and formir acids from the mort-hairs. These investigates before that these axids one value rather than benefici-

Wildem, J., and Ernel, A. Deber den Unsprang die Horst und die Erdertung des Erdertungste in Birden. Desirit. I. Back, I. Frank L., Seate 172-700.
*Solchen, J., and Stred, A. Borbrige zu Lüring der Hoff of Chemisten Beleit. Der Wermbeleyden. Facht. I. Walter, Bart oft, Berlin 28-100. and that they are responsible, in large tensoure, for the injurious effect on plants of a very compact corollism of set. In the state communication these authors report as equational in which it was found that the binds of go experiment in which is well could not the harb of plant that except the largest quantity of earlier dissip-but their roots are the case that shorts the greatest quantities of phosphorus from garies and form besit. This, however, does not necessarily contacts any consequalid relation between these physiological functions.

Burshow' drew six through placeted with continued in
large tession. He found that the maximum production age 1887. He form that the resonant proteins in drade delike record at the claim with the plants res bleasaning, whether the plants bloomed early it this in the seaton. This he considered to include that the plant seator must improvely in the solution of written essentials at the time when it is most entire in shorting them.

dendring them.

20. Insufficiency of carbon docide.—Profiles and
Book Typout and notice through and noticed in
which is which plants now proming. The coll messors
and containers a difficulty which the briefs plany that, that
there needs the tree early soluble divides prophute,
and that in said other reserves was underliked. Another
that the containers of the containers of the collection of the containers actof weeks having the same fertilizer treatment received to carbon disords. The will receiving eartern disords produced larger yields of dry matter and phosphorus in

Bonator, P. The Online Discrits Orated of Suk at Bloom Frede of Heat Genet. Jose. Do. Ap. Ramon. 48. II., pp. 202-202. 1809. The submrt is skilled to be J. Breden Lee is marked to the prop. "Profess. The an Alberta, E. Do. Ricamandal of Strong. The Alberta, E. Do. Ricamandal of Strong. The Alberta, E. Do. Ricamandal of Strong to the Strong. The Alberta Strong. The Strong Suk., Band T. Leite. Strong. Suk., Band T. Leite. 37-38. IEEE

the crop on the sail to which direkts phosphate had less applied than did the dail and excelving entrop directly. appied than did the soft and excessing entries density, but the soil to which to phosphate was added yielded equally seed whether it received earling distribes. The plants used were easily even, and liquides. The investigators conducte that makes this idea is not a suffi-cient advent to account for the mineral metricula debatical from soils by places.

how add by placts.

20. The prepart status of the operation. The real
able conductor or exercision of soids after than conducio
by the earth of placts does not stants of ways very valid bodiesy conduction as to their relative importance on the
comparisons of placts found materials. These can be an
doubt, between that motion district resulting from any
conductions of the conduction of the capitation and form decomposition of organic matter in the sell plays a very prominent part in this operation. The very large quantity of author divoide in the sal, amounting in some cases to from 5 to manly 10 per art. of the seel air, or several hundred times that of the as mospheric air, must aid greatly in disselving the sel porticles.

Whatever may be the concentration of the soil units, it seems probable that the liquid which is found when the most heir temps in contact with the soil particle, and the sect-war counts in contact with the soul paramet, and which is separated, in pour at least, from the remarks of the self-water, must have a density much greater that that found describes in the soil. Their jurnion of the soil water immediately in contact with the east goals 24 much stronger polation than the water farther from the and aphoes, because of the adsorption of its portion.

Many plants given in solution of satisfies salts however or conjust initial and the portion.

face in the roots. If the plant depended whally on the pergund solution is the soil water, a childre structure would studded antive. The special modification by shift the resolution once is instante untail with the soil profich and about normould it, mixture a direct activate learner with profice and the plant, and not movely between the soil adultum and the plant. New root-bails are constantly being formed, and the

Yes watchin or centurly him partia, and we did not been included and finguren. The entered at methods with a wait partie in not longeration by the affect for greet of contain in determined the district of the most in denote minimum from the partie for the most contained from the partie for the most contained from the partie for the most contained from the partie for the most from the most contained from the partie for the most from the most contained from the most partie of the partie for the most of the district the most from the most contained from the most seep residence where the for the thirt that the advanced in a large related with most of the thirt that the advanced and parties where the subgrant with the final that and the first the most of the thirt that the advanced and the thirt most of the section of the most of the thirt man of the section of the sec

overed to a super valued with relinated complexes, com-pand all bith regarie and insegurie matter having vigo-ess absorption proportion such boding the bases and pho-plares in an absorbed condition. Roots of growing plants have been found to cause congulation of at least tore edicate, possibly by leaving an acut residue in the entriest solution by reason of the adoctive absorption of least and rejection of the adult of the climbled salts. It is conseivable that the root-hair, by removing bases It's measurate guit the root-may by recovery users from the solution consists between the sell wall and the solution may come compute from of the colloidst matter and then liberate the plant-feel materials held by absorption. The threated reaireal, being of it resulty soluble nature, would be taken by by the solution between the root but and the soil particle, from which the root-hair could resulty about bit. Such an loyectrois would reconst for the shifty of plants to obtain a quantity of national materials for in excess of what can be accorated for by the observations of parameter, and error beyond what many investigation are making to attribute to the observation of water charged with pathon decision.

The Original Country of the American Country C

mentioning the stress. The difference in absorbing power may be due to either one or both of two courses: (I) a larger absorbing system; (2) is not existen absorbing system. The former is determined by the extent of the morbing system; the latter but his intensity of the absorbing system codes.

names by the cross of the Non-Lar amony, the larm by the strongly of the inhaming action.

28. These if the best-larg parties. —Plants with large not only strong may be expected columbs the per assent of motivate from the soil. Both is smally the maditionally the extent of the not specim is not accessively proportional on the word new of the shorehing under at the mothans.

38. Alsonghein scripty. —The absorption extendy if

of the rocklass.

558. Abstrative Modelly, — The abstractive section of a plant white way given continue of self and obsert the peach on: (1) the raphility and completeness with which the plant sidecroses the motorance cakes I wan the plant planting studence, or otherwise removes them form

phrica; (f) the artest to which the constraine bear the sorbains whether there be extra distribe, only of pirents adds, or capacite with — art in the sail particles. The first of lowes hardon's of the same part the plant and the shilling to attice restaints and autom driving a product capacite matter. It may be compared as the a poporty which results are assumed to the more rest in the order entired of the same weight on a printer ration. The permed lines the sameling state restrict in the

project of the contract of the contract, were resembled from the level to provide the contract of the contract

These several factors, which, when instalmed, deter-

who the so-called "forfing porter" all the plant, are receptived by the popular street "real friends" and "friend feeding," regular, of the see leads, for each crops are shart or exious, which require rest marks will experience and marking rout, and see free leads, in such, sate, or colories, which cleaned the birthy is, made, and, or colories, which cleaned the birthy is, made to the colories of the seed of the colories of contributions of the colories of the colories of the contribution of the colories of the colories of the the size of the possibility of the colories of the colories to the temperature of the colories of the colories of the size of the possibility of the colories of the colories of the size of the possibility of the colories of the color

hat do in go the depression related about of discussions accounting cope.

30. The description general domain — Levels kine the passe of desirgles is possion and hydroless and the passes of the pass

able during the arrange, when same ordination and missifeating are active. Phosphorus is the mintains smally yest accould by mains.

133. The feeding of grass cope. — Grosse, when in needow or in positors, are greatly benefited by mantines. They are less vigators: "Feeders" than the ternals, have They are his vigeous "feeting." that the creatile has better costs, and, what his door for more than one par, the lack of situation in the soil creases decomposition to decrease. There is ready to more active facilities of theory in practical than in cultivated leads, but this learness multiple very storely. Different with any officer, we will always the collection of the collection metric which officers with any storely are parts. He as mounters may will be applied to mendous in all related into, that the collection of th

neutra may need to approx in measures in accurate can, olds the use of ristogen in generally profitable. 323. Expensiones cross — Most of the leganitums may use deep-rooted and are vigoress "bedien." Their ability to take nitrogen from the nir voles the use of that antity to take our green on the tor reason has been of that forther constituent intenessing except in a few in-stance, such as young allaff on pure self, where a small optication of nitrate of soda is usually breefinid. Lims and potassium are the arhateness must beneficial to key-

an pleasant ay the analyses and second to be made in the majority of tolk.

34. Bost cape. — Many not organ will at like vary large quantities of plant-fant if it is in a form in which they can use it. Phosphates and always we the subtures generally reprired, the letter repristly by beets

and carros.

100. Vegetables. — In genering vegetables, the object

110. Vegetables and studies rather is to produce a regisl growth of leaves and stulke rather that sends, and often this growth is made very usely in Accessed. As a consequence, a soluble form of aircoget is very despatible. From nonmentactiff also large a promient pur in the treatment, as it bego the soil is a merius, and creditor formula: to mention of meriture, which profession from the treatment of meriture, which profession in the granutical, and date samplings meriture for the particular of treatment method of enthropic meriture from the particular of treatment of meriture of much protect quantifiers of manuses that are read for find purp, and the great value of the product justifier, the procision.

to process.— In material principal of the counter of material for all publications of the counter of material for all publications of the counter of material for all publications are shall be to the color for an element of the charge for any life of the low, this mainly proceed warms as many laws of the counter of many for many laws of the charge for the charge of the charge of

what is due in only noting a destroic. We discuss the control of prints. The plant is the proof of great, whiches there for a first in a few proof of the control means in althous, that is present of the control in a few prints of the first transcent, and in the formation of any the majority of the control in the prints of the first in the control in the prints of the control in the control in the prints of the control in the control

se petavien, sedem, nepreim, nei, can-ques, deminim, primphrus, sider, dien, act de-cis. In delicus to tree, charges a shortel from the delicus to the charges are shorted from the large de to behalve entriel to the sound proch of place to maintie, as photosim, colors, appearing, may plantime, may can through which the shorter are polarity periods to the place in an every net yet demond.

destroyed.

If the substances using as plant antisinat, such must be present in an account utilizing in make possible the maximum growth considerat with other conditions, or the girld of the crop will be considerally its historiesy. the gold of the copy of the central by the third service of the copy of the central between the period by the copy of the copy terrialism to other countitients and properties of the will. It is for the purpose of employing these a distance, and to some extent to improve the mechanish analytics of the soil, that mineral manufes are used.

389. Beinfein of plant growth to contentration of nu-thest soletion.—It has already been reposed that the addition of soluble sales to a sail has been found by some owner to comparate process process process of some operations to expressed process for invested the incombination of the end obtains (see, 201). It has also born found that plant growth, as assumed by regists of plant, or more with the conventions of the nativest solution in the which the places are grown. This is the way in which it is generally believed that soluble furtilizer with benefit placet growth. Involuble placefurs' materials have a similar, but has active, result because they do not increase the excentration of the well with our ground an enterer.

35 Quarties et particul entreit entreit et group — The thinke of niemel hebrance by repies some of law of desille to tappinden dies. List and a since de nieme hebranch to may be empressively read, so the sides vegation till or the general, and its process of decomposition than the inhabitation settle prister to the soil. Bullet natural continue, soil tensible process in feeting, but which there is even the shoot designed of the process of the size of the stational by the state of the massing species of the legislation of the contract species of the size of the size of probe interiors, of their contract, design on all, apply the size of th

species compays nations a security, using a many, supp.

When load is put under collisions, a very different condition in parents Copy, are natured from the had, and only perhally extended to it in mature a version. This willowers aroundly a certain small proportion of the intell quantity of informal solutions; but, what is of more introduce in the condition of the best of th

The following table, computed by Warington, slows

Fig. A. D., Dorrably, W. B., and Difference L. M. The sol States and the Meteol Constituted of the field Pathods. These Reput Soc. Lands, Series R. Vol. 306, pp. 19742. IEEE. Son, heep R. L., and Bland, J. A. The Pathods. In this control of the States Institute of the States Proc. Am. Soc. Apr. 4, pp. 544–55. Line Visitings and S. Chemitry of the Farm, pp. 44–55. Leven. 1994. ise quantities of nitrogen, potenties, pleopheres, and face removed from an acce of will by some of the commun-nous. The entire harvested crop is included:

Car	Yes	Toras ign Oracis	ime gr fi	Prouga Sec Strans	ing Gill	Marie Son Son Sik
Winst	3 bakis	173	148	81	9.2	21.1
lister	4 hades	157	48	35.7	9.8	207
Out	45 horbsts	191	80	43.1	11.5	194
Naire	26 burbels	125	43	35.7	-	(R)
Madeo lav	15 tons	150	149	20.9	22.3	228
hird clayer	1 loss	\$88	MZ	88.6		34 2
Politine	4 Some	123	47	755	3.4	21,5
Territor .	17 lose	384	132	1488	24.0	lxu

30. Quantities of plant-food materials contained to out. Quantities to pursuant revenue missions of out. — Comparing the figures given above with those showing the percentages of the fertilizing constituents in order solls, it is evident that there is a napply in most critica with, it is reflect that there is a reguly in root and all with that all destricts for some query leaves place product firm. (For year, 16, 18, 18, 18). Whether demonstrate of a root missistent—in the first head, where it is considered that the all most be deposed upon the root in the contract of the possible of the root of the product of the product of the root of th

(30 SOLES: PROPERTIES AND MANAGEMENT

60 MEAN ENTREMENT ANY ASSESSMENT OF SERVICE ANY ASSESSMENT AND ASSESSMENT ASSESSMENT

CHAPTER XX

ORGANISMS IN THE SOIL

A star entitled of oppolars, maintain in probably, for a few self-spirit, respectively, for a few self-spirit for protes part of few belong to feel the, and these comparing the formed protest from a few self-spirit formed protections. However, the constitute is not protections, the form of the oppoint on an whorld as the few core ofly if the six of the constitute is not protections. How self-spirit formed protections are maintained to the few self-spirit formed protections. The six of the few self-spirit formed protection. They may the few self-spirit formed protection. They may the few self-spirit formed protections and amendinguistics. The latter date will be considered from

NUCESCRIPTIONS OF THE FOIL

Of the municipations in the soft the soluted force being chiefly to (1) redents, (2) names, and (3) insects, and the phant forms to (1) the bage lang and (2) plant to (1) the bage lang and (2) plant

and the plants forms to (()) the large fainty and (()) plant for the form of the large faint of ministration.

30. Soleton. — The large rings behind of ministration of the form of ministration of the form of th

in personners postures and tanadrus are of much volve in this Yuy.

III. Were. The centre carbons is the basoriginas maps of the week for the year that historical fits. During such consider formit immannass, that had the quickly of all panel thanks, that had be quickly of all panel thanks, the tensor of the panel to the second of the three contemps, in shouther all in head draw, amount to this and of they are sensibly. I suffere a failth in the sufficient panel of the three thanks in secretarist to the sages and set that has predicted by the second of the second in second of the second of the second in second of the se

Instances are on record of land fluided for a consider able pecied so that the source were destroyed, and the productiveness of the sail was sectionly impaired until it was restocked with earthworm.

Welly contained reperiments with sail, the sail is one containing confluences and in mother cose not one taking them. Although their was noted writing them. Although their was noted writing in the reads, they were in every case in bases of the sail are failing the warms, and in a number of the best the yield on thick soil was several times as great as where no wrest.

two present.

Earthworse automaly seek a heavy, exaport soil, and

g is in sail of this character that tags one more recold benues of the strong and admition they accomplish. Surely cell and the soles of anti-suppose, in which are should fee or no continuous, are not enoughly in recol of their softwists.

their striutes.

344. Innexta. — There is a less definite, and probably land florities, action of a similar hind produced by insects, test, bratch; and the negritals of other learning insects and their flower offers. As ordered the property of any periods, with a sunsaggest design and less off, all the same fines they incorporate into the will a considerable

som som en og utersjoere inte och en å uterstene gandig så vegger soller, leger lingt ser rådely enssend in henging abod tile find staga i til et devuepation of wordy austre, solids is intergrand tilsvagli til grønst in in fanora of the not sayota af de fungtion of the fanora of the not sayota af de fungtion of the fanora of the not sayota af de fungtion of the fanora of the solid specify fulltion die very af the decay fur-less. Action of this kind is large centred to the funct and is not of great inporture in collected and

Another Institute of the large faring in consists in the infants and possibly equilibries, relative of the large heat of possibly equilibries, relative of the large large to the court of nown benefit them, is all when tribinities proceeds are yieldy. If all all the intention proceeds are disastict in found with. This merity-intention of hyplac, which may consist of mores in a division of hyplac, which may consist of mores in a division on the extreme with many consist of mores in a division of hyplac, which may consist all among the winted of the other with the consistent for which may consider the results of the many of interneuro hyplac, it called approximate

The terral, crucileous, beginnings, and selections. But see not suscited with ingention. Mycotophic Sints are usually those that live in a human self filled with the myssics of fungi. It is thought that the myes-rines said the higher plants to obtain materizent that they must atrive he in competition with the fungi.

used store for an extraction with the forge.

Mycotrophic plants are also able to grow with a very
and transpiration of necisione, as it well known to be
the case with many confirm; and this restricted transpiration would devolute sensit in lack of notriment were

aginains weld devilotes result in lack of notioned uses in sed for the existence of the reperties. 366. Plant twee, — The root of plants until in pre-mating productiveness of less of both to contribute, organic matter and by learning, on their decay, optings, which make the sed non-premable to water and which the facilitate demange and studies. The fector man of mother, with their matter laint that are left in the case after every harvest, furnish a well-distributed supply of organic manum, which is not confirmed to the furnor of in, as in artificially incorporated measure. The desirance and nitration of the lower soil, the to the openings left by the decompased noots, are of the presists importance in leasy soil, and the beneficial effects of dower and other drop model plants are due in miserall measure to this function

JUNE SECT OF RESENDATIONS

of the mindput of the second o The St. Some point are hatthed and live to commente materialy.

Mr. Must microtegasisms.—The attractoric plants of the sell may be about an since molts, butterin, longi.

after all angle for dismal as silven models, bearing, fusign and algo-200. Bear interchaptions in plants to higher plants. 240. Bear interchaptions are contined revely to long and function. They may be containly practice, in the facility, and specially as. They sping be containly practice, the facility, and sping rating and the plants of the point surple for the section of the district part of page, and the serve near the minimum and the well. Seem as point surple for the states of the section of the serve point surple for the states of the section of the serve of the serve nearest destroy interest by the plants of the serve nearest entering the state of the serve and the serve nearest surpless of the server.

be of phote; rost-cet, galls. to of pleats; rooteol; gails.
These fangi or bacteris and live far long periods, prob-shy indeficitly, in the soil, if the conditions accessary for their grants are minimized. Some of these will die-sellin a lew years if their host plants are not grown on entire also years if their best plants are out grown on the call, for others we she is a minister resident says again relations. Once a real in letteral, and the same partial relations of the call of their plants are not a fine plant and their plants are not a fine and their plants are their plants a

Backer of land by which all is unabed from one field or author may be a meant of infortion. Investince is to look defence from diseases produced by these and experience. Other disease has procured a probabil, it is practically impossible to explicate all its officiality. Residence of comparing districts for some dis-sect, but makes absence of the loot may is officer course-

any. The new of lime is beneficial in the case of some discuse. Commits of various brief have been that with fifth access. Then shelf-shelf in a limit of morthod of containg previous are less a number of incomment. The forming of pairs frames to the described less than the containing of the limit of the containing of an information of the containing of the containing

desired in a commission with either. It regions is with Emission as with Emission as with Emission as with Emission and Em

one is notice;
300. Fact introdynation set significan in high pixes.—The regarder electroprisis of the said signifition and up on the money law judgment and mixedform the arrive of the said, and in longing them the other operations that was recovery for the production of pixel to the rap in the proposation for pixel and grants it means the maxim of pixels and mixed that small "Packer, E. T., When Versit blokes Jee, Day, St. 30, 107, 153. oberwise accordate to the enhance of criev plants, there are homeoporal bloomly the crient of expanses of manus banks, the internation and that prototy of accordance prototy contracts by comparing strength and certain relicent compared to the area of ferrity coulded to seem of plant mixtured, and the strength coulded to seem of plant mixtured, and the time of contract prototy on the internal substance of the other prototy on the internal adultation of the other prototy on the internal adultation of the other prototy on the internal adultation of the other prototy of the other plants.

sured actionant the such by which key we reduce a sub-like and here resided to the first all.

Though their contribute the regular without the supple of which are in the supple of the supple of their contributes the supple of their contributes the sured of their plants or action, the sub-like and in the beard of such plants or action, the sub-like and in the beard of supple cannot be such plants on a part of the release the sub-like and of the supple of supple cannot be sub-like and the supple cannot be a sub-like and the sub-l

100 MILES SHIPPETTER AND MARKET

the roots of many forest trees and known as myourshind

the new of any force two wall home as upworking freely both shiply about the configuration was self-ing the teach field as year, of teach of the cha-pter of the configuration of the configuration of the second of the configuration of the configuration of the compact of this press.

88. Benefit will be second from the price of the compact field price of the configuration of the configura-lent field with self-then the teach of the configura-lent field which are the configuration of the con-traction of the configuration of the configuration of the field was confirmed to the configuration of the con-traction of the configuration of the configuration of the field was the configuration of the configuration of the con-traction of the configuration of the con-traction of the configuration of the configuration of the con-traction of the configuration of the con-traction of the configuration of the con-traction of the contraction of the contraction of the con-traction of the contraction of

and abide, in partial last, water.

Restrict as the force transformer, and produces, and produces, and produces, and produces, and produces, and the seem below, certain both of botherial seems of the first and the same along the last of the last and the restrict from the same and the restrict from the same and the same and the last and the last and the last and the same are maderic. their action in maderic available to the plant no-

Pa. 17 Stand April and Table I to the related and the conformal happy reported, and the conformal happy reported, and the conformal happy reported, and the conformal happy reported by the co gra from the sar to the sel

that we are incisited for most of our supply of nitrogs in virgin soils (see Fig. 59).

Un not would the maint shound of function from the affect the central of protection for a size in the content of the central o

| Chamelon of | Dymber of Institute | Total of | Dymber of Institute | Total of | Dymber of Institute | Dymber

After wheat had been growing for two martin on these soils in the greenhaver, the suite leany maintained at the same maintane content, the samples showed the following const:—

Obstacker t	ł							Number of bacteria to a great of dry self			
Good									760,000		
Pore									1.190 (00)		

Another recover why this relation between the number of lasteria and said productiveness these per facility in this besterio harmy disconsel functions in the historio historia, between functions in the historia plants for a surface of the same physiological officiency, for other same, they do not have the same virturery, and tample in women cases height the today about the same changes that in other cases require a mark greater receives.

most one parameter. Beatries are most of the parameter and the play in the type layers of self-layers for the parameters at the immediate sortice of the proats. In bundle regions to layer betters of the proats, In bundle regions to layer betters of the parameter of the proats and the proats the price bundle of beatries proset. In solid control price, the price hapful and the reseas population in breast at lower break the in hearit region. While is loogly because of the object beatries after not beat the proceeding of the first and the conditions that more regions after the proposal of the first in the conditions that more regions are the conditions and the six and the conditions after more regions.

jump it.

188. Number of huriest.—The number of hectors is and will introdily very with the resolution that have of discerning that parell. In very souly saids, here with desert test, were known, not said her in herest hand to be a compared with a net said her in herest handers in an either showest or comparingly for in numbers. In only very rich in empair uniter, specific

alore action) materials has been uposed or whose a comme has been decired, this counter becomes very large, as many as 100,000,000 for a great of will having been found, while in soil of ordinary fertility and tith the merican magniferon 1,000,000 to 5,000,000 ton grant. The extreme avidity with which reproduction occurs aways it movide. for the nutriber to increase encountedly when conditions, are formable for their growth.

as formals for their greats.

It takes on go, 4th store the marker of bacters,
is a gun of sell found in different parts of the Briefe
Store limits some protein of the growing means.

The figures showing the marker of bacteria in each
gon of sell flast we presented to this take ensure it
may be a comprehens of the relation results of a memphone of the relation results or a memphone of the relation results or in take of Effects of agency on the relation results or in take of Effects of the relation to the relation results of the relation of the relation results of the results of the relation of the r front methods were used by the experimentors in making for estimations. They are, however, as indication of that may be exceibered the redinary range in crable

505. Numbers as influenced by season. — It might be reposed that, like most plants, herteria would develop next rapidly in nature simults and that they would be kund in largest mambers at that makes, at least in regions And in largest nameers at triat states, at teach configured flow temperatures during the winter mostles. That the is not always the case has been shown by Come, the lound as the most of periodical commercian of bustors throughout a term of two years that the highest wants were obtained during the ninter months, when the sail was frozen. This does not mean that all charges of historic are present in longest numbers at that seems, let, as explained by Conn, it neems librily that certain

*Com, B. J. Basteria in France Stells II. Control & July, H. Sand 32, Seiter N.-47. 1842.

473 HOLLS: PROPERTIES AND MARKED MAT

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no want control to very directing solvice terms of doughtons, as trick-irm phosphate the example, are solved solvide and available to agricultural phosp by micrologazimus, is a matter of great importance. The crited to which the publicit has been investigated in other finited, but, in the main, three is indicated a con-skeable action of both barteria and fungion tricalsians phophate.

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¹Notion, J., Drobank, P., and Pitz, J. Uhw der Radon for Inderion and die Kerchenstereteng: Cantrille I. Balif., 6, Paul C, Seite 105-505, 556-556 1989.

508 SOLLS: PROFESTION AND MANAPENTED

				Per out				
Not inoculated						353		
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B. Baseseras .						9.19		
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Lishen, F. Handbech d. Laute, Bakteningen, 66to 153. *Arches, St. Uher des Leefchworken der Phospharische aus Stemengshählen beinnehmen der Stemenhalt de Bekteine und Befan. Jean. E. Lauter, Bund 18., 8ele. 5-20. 1855-1810.

mus phosphates involvible. He would limit the solvent one propietes mobile. He would have be extent action of bactain to the effect of the rich duey produce. Sudden's organization and formal has a manufacture regardly Sudden's organization and obtained somewhat rigidar really, which had thus to constable first there in a subsuit agent other than the noish produced by the befrie.

It would appear from these experiments that harders, and possibly fangi, concernedly found it sails not on tri-edition photoletic in such a manner as to resulte a part enterin propose it serie a nomice so a mease a per-di à mbible. Perentaleus, aspeciarett that have been rendered for the purpose of uncertaining whether to-nicion plumphate is serie or rendered norm readly surjuide in plants when large quantities of deverapeday require raties are present than when this is not the ever, howe which are present than when this is not the ever, however, in the main, indicated that the decrements opposite out the investment of the completion (part 40). In explosition of this tracy possibly be found in the construction of a serveric highport process which results in the transformation of a sidely promotive that in matches care, this construction of a sidely promotive that in matches care, the construction of a sidely promotive that in matches care, the construction of a sidely promotive that in the challent of the

the, the consumose of spate a process facing been recent by Shibhan 7 and where.

The carbon disable produced by furtheria is a solvent for many at the silentee of the soil, and may fee coldion and putantism from hombiacide and follows:

Virine groups of solin hadring through the profes-tion of H.S. and H.S.D., not no time in the soil and mo-set it into suifide and sulfate. Curbon divisite also

Theirst, W. G., Perlier, A. F., and Ferres, D. W. The Steps Arthy of Step Bartesis upon the Landship Homelator of Ster Rena Mari and Noteral Road Phosphate. Michigan St. Rep. Roy, possib Dal. 58, 1993. "Services, J. Broberstein Technical des Phosphii Iora Royales, J. Broberstein Technical des Phosphii Iora in Royale. Consult. I habit, II, Beart 21, 2818 280-211. 1993.

plays a part in the solution of tem. The lower funging the eight projects have been solution as into stale. 38. Decomposition of two-integeous require install. The regain value commonly featurement in solu-cutation is large properties of composite continuing as others. Natury associatories and additional economy that another, and two regain integers discipated for applied them the nation, hydrogen, and coppes of exper-ipation to the nation, hydrogen, and coppes of exper-

boths. Hence always contains a higher percentage of strongs, then the the plants from which it is branch. The assemblogeous whiteness motels of collections and allel consequent forms the collection. It is an article production of the contributions, organic seeds, facts, and the files, recotiond in them. The observation of endoors is branched by the section of the segment option section of fungi, and is also probably accomplished by the Section of the segment of the section of the s anyblooker, but whether through the secretion of an excyrate in not known. Other heatens have been reported to secrete a cytase that acts on section constituents of the to secreta a grace that yet on service contractions on well will. It is probable that numerous requirem cape bit of lementing calciuse and alled substances cital in the will, accomplishing this description through the production of cytus:

production of cytase. In the first of cytase on robins and other files in the formation of regar, as glosses, and the first of the firs Distinct organisms have been isolated that can office for their development facustes, sociates, propionality

instance, and the lim, the final protect being earlier ducide and water. Thus, step by step, the non-nicego-ana metter incorporated with the soil is covided by one and another form of organism from the ment pun-

plex on the rimplest combinations.

The final product of the decomposition of carbonareous not now proceed of the occupation of authoroceus; suster being carino discrib, there is a return to the sit of the compound from which the carbon of the decompo-ing ubstance was criginally derived. In the plant, m-loss it is suprophyria, the carbon of the facuses comes sen is a suproportic, the curron of the sig, from which length from the nortion divide of the sig, from which some complex enhancement compounds are produced and talkind in its functions or in its disease. A portion of the custom is returned to the sin fay the plant in the form of carnot in returns on the air of the plants in the farm of outbut disable; the remarker is retained by the plant, and may be returned by the process of dreap or may be continued by an animal, and, so the result of its physio-logical processes, either exhalted as nother infection or diparted in the tissues to be later decomposal and usu-vatal into carbon district. The soil is thus the sense of it least a part of the varied transformations silrough which carbon is mutitously passing so it is stilled by higher plants, unimals, becteris, and fungi

The new militageness organic substances in their vocates.

"May furnish find for a large member of hacteria, savong White the decement in the decorposition of mineral which we have concerned in the decompanions of means and the presence of distillation and virtupes and market methods. There are, therefore, have easy in which there are the state of a st

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CHAPTED XXI

THE ALTHOUGH CTOLS

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war it not for the other process—potentiation. How, further in produced by australia bederin. In the range body, and monetoperally in the same off, being and pure-facious rays be in proposit simultaneously, doney toking place or the profession state of the process. The process has been also provided and on the mediance of other period. Yet the "while protections come on the in-terior, where the supply of support is founded. By treat

toning shore the rapply of surges is founded. By trees of the two process, conceptation in partly feelithed. Decay (see Fig. 66) produces a very nepth and enougher decomposition of the solutions on trades it separation must of the control see independ their garding control that endow detailed and water, and the entropes into announce and problemy tomes builties. The latter is possible in the cuit-feeling of removing them.

4 NH + 3 H, - 6 H, 0 + 2 N,

The staller of the proteins finally appears in the form of

milities.

What the intermediate products are less not been determined, but in the decay of most, in which there was so

comes, but now comes, we want, to what now we are bundant supply of oxyges, seeding polarytic, aleist, and plenyt peopless neith home been fusual. Purfordering reside in a large seather of complex inter-mediate compounds and proceeds train more slowly-flessy of the substances thus produced are highly poisson one, and need of them have a very offence odor. They may be further beaten down by decay when the credi-tion are mitable, or by a continuation of the process of potrefaction. In either one, the princesses properties

parameter. In other one, we present a payment and the other are returned.

In the process of decomposition of organic moder two closes of substances are produced: (I) these that have been exceeded or areaful by the besteriers, and therefore

have passed through the metabolic processes of the organ-ion: (3) those that have been formed becomes of the amoval of certain atoms by herteris or enayous from suprouds, that reconstraint a sestjustment of the summing atoms and the canesquest branches of a new

ensuring data and the canceptor, accusion at a new against al.

Palmicolom is excited on by a large smaller of forms of bestive, the residing protect depositing on the gal-actor in pressure of decomparities on the besterial models. Some of the characteristic, illimph not res-tinct, position forms of the characteristic, illimph not res-tinct, positions formed in the particulate of allocation and the characteristics of administration. test, protein formel in the perchotion of alternia of grantes and alternous papers, and noise such, third by the formets of entirence, pricers, just the all pink. When in historia stayly of engus in partic, or when a stalled stayly of engus in partic, or when a stalled stayly of engular large and the protein of proteins on the formet. There we say that proteins of proteins, reading a start of some an entire transfer of formet. There we say that proteins of proteins, reading a start of some a protein family, the pages stalled, years the probabiles, before, suggest at the like. It was com-tained to the start of the start of the start of histories of the reason suggest and the large.

Senation of simpler ones; and that a very large marcher of feather ones; and that a very large marcher of featherin, one conserved in the various state, rolls over the same substances may be obsenposed and the same

of two problems may be obsequed and the sun-matting companies from the parameter of officeral series of hostins.

These relays hardeligs at the adjust ober set made.

The parties of parents at let the besteles assumed in with step, or to search all the intermediat products thereby, but for the states of the set the procession of the parties of the adjustments to take which the attempts in such available to piece, and the

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conditions that are likely to result in its loss from the

nel. M. Ammerication. Decay and potentiales my to considered use beginning of the presses of armounts function. Ammerication from Fig. 63, no fee sensition, a test store of the presses design relations made in found from the determinant product. The first other present of interpretation product. The first other present of interpretation, there many gravies of butters made of feeling attention. Effects of these disregators are interpretation of the product of the product of the product of the present product of the present products and the present products and the present products and the present present products and the present pr shoping different statistics in recording a latenger, at the sense organic motival into numerati, some entities neve inquility or more throughly than others. In tests by certain in westigation on which the same beginns are use in a biferent auditance, the other is their efficiency in changed with the change of substance. It seems likely, therefore, that certain focus are most efficient when seling on rethin organic compressio; that, in other words, each openies is best adopted to the decouposition of certain substances, while equals of attach-ing others although less effectively. This characteristic profession of a class of bacteria for the decomposition of cordin substances in made evident by the experiments of Euclott, who found that in some noise dried bland was manufalled more rejuly than was noticested used, while in other pals the reverse was true.

N1. Becleries and unbelances amounted in sumoof-

settim. — Account the bacteria producing accounting-tion are B. regarding, S. relating, R. regentarious and pains, R. jordinius, and B. produc redposit. Of time, B. regentin har been very carefully strained, and the *Sadott, W. G. The Assemblying Efficiency of Contact Optionedo Scila. Colombia Apr. Drp. Bia., Dal. 184. 1812.

findings of Machal' may be taken an expensation of the process of automitistics. He finds that their this batteria was marked on a mention has find of the highest parties and a time for their two products, by process, and funds, buttle, and amount of poption, locality, options, and funds, buttle, and proposed applies that the process, temporate applies in the all the funds which the forested of the distinction and the other hands and all the three dates of the funds and the funds are funds and the funds and the funds and the funds and the funds are funds and the funds and the funds are funds and the funds and the funds are funds and the funds are funds and the funds and the funds are funds and the funds and the funds are funds are funds and the funds are funds are funds and the funds are funds and the funds are funds are funds are funds and the funds are funds are funds are funds are funds and the funds are funds are funds are funds and the funds are funds a genetics of the dimental converted tale carbon devole, the value into addicts with, and the hydrogen partly into seator, and portly into accumula by combining with the integers of the organic substants: The suggests that a complete decomposition of the allowing securi-according to the following reaction:—

Callan NuSOn + 77 On

= 20 Hy0 + 70 CO₂ + 80₆ + 16 MH₄

The greatest activity occurred at a temperature of 86° E, wel as lew as 18" E, artion was rather strong. Access n, win as 1994 as 10. It, arron was matter front. Account of an increased armount of six, precised by increased the whole of the Equici, increased the rate of autonomination. It slightly unit reaction in the liquid produced the maxi-tion activity, but in a neutral or even slightly unit mefrom the process was entirened, although much less

dem die prieses was collentes, utiletige unen een effente.

Mitteld fennt deat E. mynike was also capable of mangalityin rassin, febri, kepnin, gildin, mysika, mysika, polane, restier, lesden, kysikai, and appropries, lei tod eres.

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'Mordel, R. Ser la Projection de l'Ammuniaque dans le Sel par les Misseles. Raffelm de l'Amel. Boycle de Misseles. I Arris, 7, 25, pp. 122-718. 1836.

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born determined for males, sive, pear, harley, and yotators. Other plants, and we best, from a finish, preference for silveger for few set of thesis. Mindry, any of the common reason and their as wife on accounttion rules are miscatch to and the miscatch. In most task how the silvent has to the miscatch of silven year does not styll with the common into construction of sinteness and by this constraint of security of the constraint of silven and the missian peaces to the formation of sinniteses and the missian peaces to the formation of sincetance and the missian peaces to the formation of consideral to remeat meeting to the delivery again.

considered to preced moveding to the follow:

$$2 \text{ NH}_1 + 3 \Omega_1 - 2 \text{ HNO}_1 + 2 \Pi_2 \Omega_2$$

 $2 \text{ HNO}_1 + \Omega_1 = 2 \text{ HNO}_2$

The acid as either case combines with met of the bases of the soil, usually existen, so that existent situate resolu-

Bed of these steps is longify than by a distinct lantings, but the longing are shorty rather. Other likely they are all in this batter. Beloneurous and Milmensens set the hateries converted in the convesion of amounts into sincess and or station. The ferror are outprind to be characteristic of Bengams, and the latter of Amounts, with. They are smerfaces selected text in these latters are selected as a since of the selected and the selected and the selected as a selected as a selected as a latter of Amounts, with They are smerfaces selected text in these descents.

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29). Efter if not all deaths an additionine. — Probably the surface have previous philicians in the squi in the region of an indeed, and come has more and of whiter their two point can be intered to represent an interest to the additional probability. The squite can be simplified to be included to require all millionistic influence and optimization of the squite measured and might before in Standard and optimization of the squite measured and single factoring influence and off of the part of the cold officiency, the square of the squite probable is defined. All focusions there is no standard and another size were three described and all control and the square factoring the second and another size in the square in the squ

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Reington, R. On, the Distribution of the Michigan Openion in the Bell. Trace Chem. Nov., Vol. 51, p. 181. 1897. *IML A. D. The Book of the Cothwoodal Experiments. 9-30, 1800 Rev.; 1985.

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Hall, S. D. The Soil, p. 178. New York, 1803.

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3%. Nitrate reduction.—The ridrago-bandensing factoris than for stadied have been those that cause suches that het interest here from their thing cupe the colotion of diverge as the recent of their extin-tion. A secular if furne of bostom that accomplish a treese action may row be considered. The accom-pressure involved are commonly designated by the mound term interictation, and suppose the follow-ing. I, advantum of nitrators to nitrites and america; Connection of mitrates to mitrates, and of these to ele-

Amintane of whotes in notice, and of lose is se-menty citings.

The number of organism that percent he shifts at-sumptific ment were off lone presents on a large-fact, granter that is number movious in a large-late, granter that is number movious in particular to processe; but, in sale of their mancher, presented he discharge in referency mode sales accurate with a stronger and the sales according to manch in tay less are synchronic states of the large in manch has been also such as the sales according to the sales of the sales according to the sales and the sales according to the large large movie for the sales according to the sales and the sales according to the sales according to the sales and sales according to the s

my le a very serious estate el les. Some di les prode tacelors reperted as bringing shout d'auto-enlectien are: R. reseaus aux R. pendior, shelch blues obstate; R. reprodely, R. relation, L. secretarious l'épules, and cuery other ammerication bacteries shiech de capable al courating situates into una recuis.

A. desirptions of the set R desirptions has rejuminates with the excitation of general rileges.

35. Micro-establishing organisms.— In shifting is the interstandard photocal standy section, then see alter bacteria which allow obtacters; but, the tight-plants, then recover the alterion into against stage comes subhances. Herevery, as they preach in the dark and cannot obtain energy from smilight, they went have organic acids or surbobydrates as a source of energy. While these harteria council for considered as nitrate reduces, they help to deplete the supply of nitrates when modifiens are forwarded for their development. What

conductors are invested for their processors, and an these toolships are it not well understood, not can are enhantly in made as to the cutsof of their operatures. 876. Doublifferedon. The term desirtelession was be used to include both the process of nitrate reduction and that of notate estimilation (see Fig. 61). Most of the desitrifying bacteria perform their frac-faces only mader a limited smooth of oxygen, while others

can operate in the presence of a more liberal supply, but, in general, therough airration of the soil practically processes destribution. Straw apparently carries on alternated steply of desitablying organisms, and alternation is supply of surballydrates which favor the action; so that stable assume is very likely to universe.

actions; so that cannot extend a vice of interfer in more districtions on a district or course which we considered to the profit of dealerships bacteria in these Under collessy form conditions, destrictions in the sail where proper functions and Glage are practiced. Warington? showed that if "Worlington, R. Investigation at Bachacastel Repti-mental Station. H. R. D. A., (More of Prop. Sta., Bul. 8, p. St. 1862.

a cubic will be processed with our set the citizens of the three side of the cubic set that the set that company, the colored of the processed with the set that colored or the processed with young real reasonable and young to the set of set the processed with young the set from the three sets in this way relate a cheer forther but to colore to colored with you for the sets of the colored with you are presented as the colored with you are presented as the colored with you are presented as the colored with your forther present to the colored with the colored with

The difficult of a limit fortilize to an elicibility of the property quildraturum in fully promitish bandle principal quildraturum in the plenty of more in such the mixtural power, full miss that the fine of more in such the mixtural power plent and intended to the property like of initial radius for such company like of the initial radius of the misses, the distribution of the surface power in the misses of the surface power in the misses of the surface power in the misses of the surface power in the surface power in the misses of the mixture of the surface power in the misses of the surface power in the surface power in the surface produce in the surface power in the sur

where to the consumption of problems with higher facts their sections.

37. Ricogen feature through symbolosis with higher feats.—It has long been recognized by formers that "Unit, A. D. The Boot of the Entherstat Septiments, SH-MAN, New York, 1930. creati crops, to drow, Allah, past, heart, alcolon, reprove loose, realist, past, heart, alcolon, reprove loose, realist, a yearlier, to prolonge
only a chande for loose year, loose heart in they
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37. Pathia all channels to path to the last in the
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33. Before of because the colores are as well as the second of the colores and are about the first the distinct of consequences again is exemptified drought the citied of consequences again to be made of the policy. These because that it is man before the colores of the colores and the first and the second of the colores and the colores are colores and products. The present of the certain spectra of precision products in this present of the certain spectra of precision products in the present of the certain spectra of precision products in the certain spectra of precision products in the certain spectra of the certain products of the certain precision of the certain products in the certain products of the certain products in the certain pro

age. The extrace of the organism is climical through a resthair which it penetrates, and it may be some a a Blasset extracting the entire length of the hair and into the rolls of the catent of the toot, where the greath of the thirthrotates.

Then show the complete badysis over in relative or in the sight in tignation plant may not some may be able to be problemed to see that the state of the sight and the sight of the sight stated. We betimate the shifter to reflect controlled theory in the time have the shifter to reflect controlled theory in the former conflicts. On soils due in integer, long and and consulted integer, out profet to the side in the former conflicts. On soils due in integer, long and see the side of the side of the side of the integer to the side of the side of the integer to the side of the integer to the side of the integer to integer to import and and a side of the side of side side of side of side of side of side of side of side

A special content of a second a design as mightalized a delayer on the against amount of the against a delayer of the against amount of all activities from fair to be too the fair against the against and the against activity of thinged the predicted application as not held or the against the against a delayer of the against activity on a more price has a delay fair to the against activity on a more price has a delay fair to the against activity on a more price has a delay fair to the against activity on a more price has a delay fair to the against activity on a more price has a fair to the against activity of the against a hours, an administration of the against a delayer and a hours are priced as a part of the against a fair to be against a delayer and the against a fair to be against a delayer and the against a delayer and against a delayer and the against a delayer and all against a delayer and a delay

of impliciting results other species of inguines.

170. Transfer of sistingen to the plant.—It has been those by several investigators that furteria from the

makin of legam are akin in fit attanplent they, are after of control of high people belts. The violations is be so held diselect, that it fails of chieges in the best of legam is assumption in the control of the disease of the control of the disease are produced on the people as a fine region of the control of the people are the control of the people are the control of the people are also people are also the people are also the people are people are people are the people are the people are people are people are the people are the people are people are people are the people are the people are an appear and the people are the people are also the people are people are people are also the people are people are people are also the people are an appear are country for the and properties also therefore the people are the people are also the people are people are also the people are also the people are people are also the people are also the people are people are also the people are also the people are people are also the people are also the people are also the people are people are also the people are also the people are also the people are people are also the people are als

edegrams upon matter in the justice. The tells point and the fitters that the same of the fitters that the same of the fitters is the same of the fitters is the same of the fitters in the same of the point of the theories, a management of the point of the point of the theories of the point of the point

are para.

Sile Soil insociation for legumen.—Insociately bllowing the discovery of the mixego-faing hecteris, the
possibility was conceived of securing a better growth of

ignations cope or sole art having periodic group and cope succeedally. Extractive experiments aboved be preclamating of inscalating land for a certain legislawhere executelly. Number exprises from the contraction of the contract

die weg femerly lineshed is water, hat now a shitten of partic bening i route i met he proceed abungs of warfe present, which may exact plears has a realt in the elements of the barrels. Which preset years a surface of saltern for soil invaluate, have been affered to the public. The first of these collision abunds to date to the massive the best in its a day state from the percention in the laterative. in the man of the mature, who was to prepare therefrom motive exhins to be now fire inequising the sull. Case fit investigation of this most delevent that is weaken by a fixing the collection of this most the behaviors of this will be fixing the collection of the requires. Moreover, paired in the collect of the requires. Moreover, paired in the south, paired calls we have placed in this entary, and there have, in the teams, proof to be sown exceeding collective count to by the binder for the sown exceeding collective count to be paired on the region and distinct region, and other word as a considerable of the collection to the paired and with the paired and will the paired and will. The paired which of being saided as possible of the collection in interest paired that the first paired with the paired of the collection of th

(a) It is only a question of time until a successful method of incredeling soil from artificial entires will be found. In the meanting, inocclusion by means of infested only in the most practical method.

(8) Negre fastes about special with higher and the state of the st

a likis area. Bill Birges forig organises — Direct experiment herborn shat errais besons hat the facility is build as the second has been a beson in the second has been for the second hard from (or Fig. 8). An underlike insuline—Facilities produces may have for facility to be read to read, being a conversel of other real of sink or being produced in contact and the second produce of the second produced in making the second of the second produced in making the second produced in the second contact and it was about the facilities of the second produced in the second contact and a second contact and a

we assigned index to state that it almost key outnote further of attemptates intogen-firing organisms have that them discovered. There are: (1) several members "Part, A. D. "On the foreunitation of Twelliby by lead Almost to Part Will. Josev. Agr. 80, Vol. 1, 5 St. 1900. of the group designated Acadelaceter, which are similar backers, and which some investipators hold to be expelled failing atmospheric infragra whos grown in pure collines, while others believe them to be able to do so, at least a water detects tenevier treat to be a time to one to, at tenet an large, auturnate, every in the impression of sortium tilly organizate; (2) members of the Granulabtaeter group, which the large proce-learing lateful at assemble helics; (2) threather reddeducing which appear to be elonely related to or identical with the B. reddenouted of prouse tollerates. The laste manned has been shown to be chief tollerationaphy in nitrigen even when mit growing in spatistic with by

tree. Then are doubless many other shoppeding as-gainst all the determent.

A predictly of these integrating enginese is their and endophytes, which they demonstra is the rower of temporary with the process of takings that Day water to temporary in the process of taking from their Day process of taking their Day process of taking their processed taking their processed taking the requirements, reported reduced, in sowerage for the het profession of their proposition prices in the takes they were not as now and as a process of the processed of the processed of the second of their processes of the processes of the Ball Mort adhered of though their quantum. Next estrues of the various organisms mentioned in larger amounts of nitrogen than do the pure column leger mounts of universe than in the pure entire of any one of them, while some forms are inequished fixing ailregen in pure entires. Cortain along, perticularly the binc-preco along all growth in potentials growth and ritingen function by these organisms. This they probably do by producing enticipations, which are used by the bacteria as a succe of energy for rileogen fraction, the bacteria familishing the algor with nitrogenous compounds.

to what extent the relation in symbiotic is not known at present, but it weres probable that a relation may exist and/or to that between legitimizers plants as of the citrogengalizating histories in their audition.

egeleting bestern in their solution.

384. Nitropen framinis put destification undeprotect.

Minagen finadars and finistrification are revenue processor. The ferror in, for most hearins, farment lay
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as thoubulan supply of most hearins, farment lay
as thoubulant supply of most hearins, and and "P. A does was not most form. Destinfacilism in thousand by a networked limited supply of

expect.
There is no muses to believe that the practical importance of stronger function without because in equal, under the most favorable conditions, to that with hypones.
A further learned of the requirem effecting function and of thrie buds will doubtion make parable a practic efficient of their pures to applicate this are of layness as a source of conducted already as the said.

PUREMENT OF BUILD WITH VOLUME APPROPRIES AND BUTTLE THAT

Attention was first down to the offens of curbon binddice on the real in a paper by throad I and one by Otental thick appeared in 1984. Cleand national that will benefic with curbon distrible for the purpose of combusing a paration diverses of super-best was zone production than it

Moret, S. Beckerder or Pagenoptifies du Bisdas Se Flagette der is bit de Selten de Geleura i Done Morfen. Brit See, Nationale d'apris, Tomosi, p. 100. 1986. "Obrete. Betament plats and Seiverd Bulbroist." Narr., 1987. was before such treatment. The hereficial effect of the

was below such neutron. The handrad effect of the transmit establish is the second year. Obedin found, a consolute similar condition where the soil of variously neutron with earther healthick as it phyllosoms altered greatly increased productive can after the treatment. The offset of earlier brackets on the viewed self was to color it possible to rake grapes con-tinuity on the same land, whereas it had previously less measury to sest the land by growing a manusics of other cape at intervals of several years. It was noted however, that sometimely after treatment the plants old not grow so well as under corneal conditions. Systemate investigations of the subject then began, and as early as 1956 Pagnod * reported that when carbon biselfife is applied to sola utalization is temperatly depresed. appeal to suit relativistics or temperating depressed. Exceptionist of the effect of least on sail had begin somewhat cacher, when Fank? showed in 1988 that it increases the quantities of mitalia marker, but depoir and interpolate, as well as esseing the sail to be more pre-

The subject has been investigated by a large number of persons, and in arbition to earlier himilitie a considerable number of other wokide anticeptics, including other, number of whom wants subseques, produing want clined mrs, and takener, histor here haved to infraste die productivateurs of soles. The effect of heat, particularly in sterm, at various temperatures from slightly alone moreal to more than 200°C, has also been studied, with

*Pagend, M. Nureden Restortion on he Transform-less on Stiff Clarke data is St. Januari Agranosiset. Trans St. pp. 487-401. 1958.

*Planck, B. Berte den Refere werber des Restlies*s he Berkelens and die Pittatee Restrictioning statisk. 185 d. Dart. Bel. (refin). (Restortionation long Help State Science St-FF. 1988.

it has been found that the according of note effects injurtant changes in first subsiding and in the herical powers that occur in them. As the work of the in-expirations, certain well-creakfolds fixed have been writed not in connection with certain treatment; when

which out in convertion with certain transports when applies to east with.

If it is in a control bloodle and hast on properties at mile. Private antiseptes usually invesse the pro-ductors and was, being the easily be actually and prompty retracking of plant growth. It is of conse-naturary to permit the antisepte is whelling from the plant of the authority is whelling from the plant of the authority is whelling from the plant of the actual properties and it growd out in a with large, in which considers is a di-cession of the actual properties and actually all and the control and the actual properties is a second of the control and actually level to remain until the older of the autiseptic has dis-appeared. The coil is then placed to besteld and moistained

nd the seefs are planted in it. Other characteristic effects of instances with velocity as the stees is planted in the Charles described and a seasons with soluble uniquies or growth by efforced instructions are contributed in the con

ment with host and volable artiseptics. A number of these discricts will be monitored, but it should be expos-bered that much important work to the subject has been done by investigation who have not advanced any hy-

done by investigation who have not advanced any hy-portures.

367. Xeed h theory. — Keeds was the first to offer any explanation. In 1990 be stated it as his opinion that such as hindless has dereisely stickness, goods on the places themselves. He latest beautiful goods on the places themselves. He latest beautiful to the latest another action, and ordinate his experiment with arbita-mental results, and ordinate his constraints with arbita-lation of the state of the state of the state of the latest the state of the latest of the state of the beather. He found hat so it declined with fact, yo-deed botter drops when treated with earlier biselake than when out in treduct, and continue that the effect of the authorities are made be due to the effect of the authorities on barbonic. He also superimented with field soils, and showed that the gist of the errop on treated sole is not proportional to the quantity of nitrogen antivieri.

contained. The theory of Kook has been supported by Pool,³ also fortilized only with an abundant copyly of softum orders and found that in every case in which carbon bindfor was added the greath and yield of copy were much or perior to those in the corresponding pots not freefol with that solutions. He concludes that as there was no lack of plant-floor and other conditions favorable to plant

as protection than other contracts solutions for the product of Remarks and Re

great, the effect of the university must have been directly

prof. for for the subspice multiparts are formed and to joint.

30. Hiller of Simon's charge – Jeanning to Marcol Steiner of Simon's charge of Landing of the charge of th were S per cent, 10 per cent, and 15 per cent, coperatively. From 70 to 75 per cent of the whole manifer of Bectris In this is, for one of the whole matrix of destrine, we destroy the lyst extends $(1, 1)^2$ and $(1, 1)^2$ and

Philiper, I., and Sidmer, K. Stadies that do Tableci-witz, de Libertolous, just benedert Berbinsberg fein Verlahmungt som Behanding fri Sit offerhanstell site hardes for Earl Life L. Line - Remainderth W. Karrel Une, dank, Band III. 1965 A. Berfan, 1965. Mi-sec in Oberle C. Agriffanker Obersan, 198 July, 1962 Mi-Bel. 1996.

authiests in the soil, and to a decrease in the number of desirriying bacteria, which obviates has of available nitrages through their action.

adapper descript their adain.

Belles of wasting with soils method with carbon bealfals, and Bieller, Brack, Fieldarder, and Elevenbergseebing with steased sails, found that three was large fundam of altroger following, these treatments. They carbon that this is it hast posity requestible for the greater productiveness of the soils after the treatments.

and a second of the state of the second of t

Meiren, B. Risa Welsen Mittelangen feer fan Schweldladtensteff met die Okt-Palensteffen fen Erchen. Ostob. J. Sales, H. Hand M. Sole Sale, 2018, 2018, (2018), pp. 1765-28. 1979. 1766-28. 1979. P. Dr. Kitchelmsteff fen Inderholder. 2018 of Lands-Land. Zhangi Univ. Eroskov. Scot. 1, 1984 215-281. 2018.

all than in untreated wite. There can be no doubt, furniture, that, at least for some higher plants, the quan-ity of smallest always in present in the treated mile. The exhibits of protours to the momentalism, bectering is nonrelast more difficult of demonstrations. Methods where the committee of the control of the collection of the collec by the currenties of protests in the sel are not suffi-

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ER MALE: PROPERTIES AND MANAGEMENT

Some typical results of investigations by Russell red. Butchinson on the effect of partial statistation on he-teria numbers, anamonia production, and presence of protonce are given below:—

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Buil hosted to 60°C for these hours	2,970,000	144	Present	Chain ámata Manta
See three hours	27,800,000	35.7	Ethi	Al tile

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"Umig-Buish, R. The Businistation and the "Agreed" of Bolo. Charles, Paint, Jil, Bard 21, Sale 149-148. 1911

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sylladion by period eye, C	15	15,400,000	11,000,000	5,000,000	8,000,000
nia this	23	34,500,000	45,400,000	44,500,000	en program

One-South couched that as the leastest developed me might in the set beauth with describent offer being them is the set beauth with describent offer being them is the set which we may beauth and have the the grantess non-parentally do fail. Set also do more than exactly any beneficial dest who down that the courted area beneficial dest who down the set of the s

Unip-build, R. Craphatine is our Eurobeien of 800 brilly. Proc. Linears Soc. New Socie Wales, 1912, Part II, 8t. All 842.

471 MOLE: PROPRETER AND MARKOMERST

tied in persistant for a long time, principally for to, propose of enthining plant dissums. In value in it, creating productivens his form a consideration size this place of the subject has been explicated by sixed, points, and the treatment of "resequents" until principal matter. It is an a central of collisting who are present and facility, becomes that the investigation of the first of the collision of the first of protein attention of the sail in of prostate in portance.

Hamil, S. J., and Golder, J. Javeskipskins en "nik som" in still. Park 1. "Sweep striams." Jour. Agr. Sa., Vol. Sp. 27–26. 192.
Romel, S. J., and Onling, J. Investigations on "pitters" in std. Park 2. "Globours" in glandware with. June. Agr. Sol., Vol. Sp. 95–111, 1912.

CHAPTER XXII

THE ROLL ALE

The six of the self is merely a continuous of the Then in it has not be not be constructed at the strategic in it in the intensitial space of its intensity by the intensity be done show the relation if the pressit sufference the cell art in term reading flata is intemplete their like light in injuries of influence in managine between the classification in the sile of the flata reporting of the flata reporting in the last reporting in a warring of mentalities in which physical chained, and histograful properties play a part.

FACTORS THAT DETERMINE VOLUME

The amount of sir that soils contain racies with their The smooth of the face and contain rades with the properties, and it is not as all to dis contact with with which suggest as which the will is subject from the face. The facious the devices the whom of the limit has set; (b) excluse, (b) experies, (d) experies, (d) experies stature, (b), extense, —(b) excluse, (d) experies stature, (b), extense—(b) excelled a profile is all the properties of the sub profile is not be set of the sub profile is not be great from the face of the sub profile is not be settled. A first excelled in it is all the great from the face of the subject is not only under the devices. A first excelled in it is all the great from the face of the subject is not all the settled and the face of the subject is not all the settled and the face of the settled and the settled

conventional oil, middle by policies recording to the control like in the like the medium temperature of the desire from the first recording temperature of the control and policies of the control and policies of the control and the control and the control and the control and like in control of the first recording temperature of the control of the control and policies of the control and policies from the control of the cont

33. Organic matter. — Since copied meaters is ware prome that mixed perfectle of any five an exemption. The close of this considerate is always to describe the values of it. While this is presently betterful as in much region, it is close to polymer in an and organ littles softwire twent this to the could be suitable to apply which the term of the contract of the suitable and apply which of the promote theory polymer, the present of requirible much never the suitable to present the region of the contract of the contract of the contract of regions of the contract of the contract of the contract of regions and the contract of the co \$53. Organic matter. - Sirce organic matter is more lary rise of accepting is unfortered with, and the source side moment of air keeps the not day, with the result that the portion of the not layer mixed with and light above the organic matter is too day to germinate scale

one to support plant growth.

Me. Mediane mentant.—It is quite evident that the larger the properties of the interactional space filled with mader, the smaller will be the quantity of air contained.
This does not reconstrict mans that the higher the pre-

The seat with a sile of the religion of the first the sile of the religion of the first the sile of the religion of the first the sile of the religion of the sile of the sile

Kair space = % pore space - (% H₂f) X ap. sp. gr.)

COMPUSITION OF BUIL AIR

The six of the soil differs from that of the certains atmosphere in that it contains more natur value, a mock longer proportion of earlies district, a correspondingly water amount of oxygen, and slightly larger quantities of other grass, including summin, methods, hydrogen ratifits, and the like, formed by the decomparison of

rands, not the like, fermed by the documentation of "Qualit matter."

36. Analyses at and air.—The composition of the air of served surfa, as dependent by Boussiagnah and Leavy, is quoted by Johanna' in the table following:—

"leinen, S. W. How Cope bard, p. 28. New York, 1896.

Canada	Paces fon er bras lit	ign re ur lif	Coconstance of 100 Person like her Transport			
****	(A.K.)	Carla s Reads Ca. b.	Thé sa Nasia	Cupe	Mag	
Shady patient of ferral .	4.405	14	034	_	[
Loans wheal of forest .	2,530	28	0.75	19.59	20.50	
Burface sell of broat	5.8%	57	0.87	INEL	2183	
Clay onl	10,330	11	0.56	10,09	na	
managed for one year . Sell of actorisms had	11,182	86	0.14	19.02	80.26	
foreign research Southy said, rise (norm after	11,182	(1.54	16,60	2) 10	
manning Sundy soil, two days of ter assuming (Circu days	11,763	257	221	-	-	
elitate)	11,758	1.144	174	1035	7947	
Yestable mold present						

Then an seed date that whom the couple to a die of it, then of petral injection being the model of the solid in the couple of th

of the soil jee par. 2003, the experie portion of which is a partially capable of confusion; gasts. Dayon con-junction the author of this experie matter words, in the syrch of Johnson; "spend hast! in classical section," of which exchand distribe would be the routh.

the quite of belong? "good but is a status design," and will destine their design of the class of the control of the control. Then is not a shelf, havener, the brighted process as largely required for the sentence of the large quelled of states facilities for the sentence of the large quelled of states facilities in the large control of the la

"belassen, R. W. Here Coops Ford, p. Sik. Pher York, Unit.
"Suchina, J. Univer don University die Linger und die Behatung der Kollenderführte Rober. Control, I State, II, State Jr. Schiller, 202–208. 1986.

is in final likely to present a proportional forestion of carbon disolds, since the accumulation of the par say inhibit firefler activity of the decomposing organisms. Remeant streets that percentage of action directly in the soil sin has the following relations: 1. The curbon directle increases with the decide rise, and that with the temperature, being higher in the war-ness of this with the temperature, being higher in the war-

- months and lower in the oak name (by
- Changes in temperature and air presence change the percentage of rathon districts. 4. In the same will the content of outbut discide varies
- greatly from year to year.

 5. An increase of moisture in the soil increases the po-centure of carlon dissible.
- 6. The amount of earlier disside varies in different parts of the will
- The remement of earboo discide from the soil depends The movement of ration of most from the soil depoter chiefy on diffusion into the outside atmosphere. The conditions governing diffusion, which will be discussed charakter (see, 400), therefore longely determine the rate of loss of early of discide from the self.

Both organ and control deade, as they wint in the sir of the soil, have important relations to the presence by which the soil is maintened in a haldshife condition for the rests of plants. Deprived of these gases, the sail

would now be passed.

300. Oregen. — An all-important process in the sell is that of ocidation, became by it the organic matter

Barram, E. Bodsolones, Sete 201, Secfa, 1984.

the well was unusually to the enduring of higher part lie is flaqued of, and the plant bull mission is shought has a ministion is wisted in your by al-ability by that water. The procure of support is mos-tion to the complete flaques of the property of the property of the property maker. Prompt fing the complete flaques of property maker. Prompt fing the complete flaques of the property maker is the pro-lated of the property of the property of the pro-ting of the property of the property of the pro-ting of the property of the property of the pro-lated of the property of the property of the pro-lated of the property of the property of the pro-lated of the property of the property of the pro-tead of the property of the property of the pro-tead of the property of the property of the pro-tead of the property of the property of the pro-tead of the property of the property of the pro-tead of the property of the property of the pro-tead of the property of the property of the pro-tead of the pro-tead of the property of the pro-tead of the protection of the pro-tead of the protection of the protection of the pro-tead of the protection of the protection of the pro-tead of the protection of the protection of the pro-tection of the protection of the protection of the protection of the pro-tection of the protection of the protection of the protection of the pro-tection of the protection of the protection of the protection of the pro-tection of the protection of the protection of the protection of the pro-tection of the altergen and sub-constituents more or less available De chart use.

for just max.

Ougges is the necessary for the generation of such as the growth of plant roots. These phenomen, although not involving the exceed of large quantities of origins, are jet colorly depositent on its presence in

of erges, are yet countryl depositant on its percentar in contribution support. We show the critical fields.—The solvest critical fields.—The solvest critical fields in the most important fluenties in the sail. By the selection if propose for slaception by phase took most of the control slaception by phase took most of the control slaceptime state in the sail. Although the make did when displayed in usuarly, in submedigen-ties and contineous formation during the graving season matter in a function of the control state of the control state of matter in a function of the control state of the control state of the matter in a function of the control state of the control state of the matter in a function of the control state of the contro reside in a longer to the fallors.

Contents and dissolves from the soil more or less of

of the terminate required by plants. The seconds on fineless are impreciably greater than those disorbed in pure water. The constant homeation of rather disorbe

where writter the circum remains or manimum in the description of agencie tester began this selectal realizability on south of the selectal realizability or selectal tester of the control beautiful to the selectal tester to the case with subsect or beautiful to the self- Professionly in this the case with subsect or beautiful to the self-. Professionly in this the case with subsect or beautiful to the self-.

which is of the greatest bounds to the soil in maintaining a skipt alkeding very favorable in the development of many boundrial lawtifu and to the maintenance of god tich.

Solidam I has correlated the cultur discole production

Strickers that correlated the curbon discide production with the quantity of phosphates found in the discharmater loop, certain soils. Some of his results are given below:

	Pile to Justice at Negati (Elligram is a lawton)	Terror Proper now (1), (Hillymeric city, prantiti il lien)
losp	5.0	8
Chy	 35	ES.
Liner sell	5.3	36
Hameus soil	8.6	56

Stables consider that the production of nation design in assume of the intensity of bosterial action in the sail, and that in consequence of this activity the planphone is content withte. When surher through its contents as after estimate

When extent decible is existently a soften estimate potention curricular in considerable quantity, as nertain classic oble, over justimes action to plant metant on self-instance results. On plants the extension acts as a direct prison (over par. 380). The effect as a threating in to addressible the particles posturing the square grain or the compact principalisation (or fat 150).

¹ Siottan, J. Moderden zur Bestimmung der Alzurerinkeniste für Bulterien im Roben. Leit. f. d. Laufer, Verracht wesen is Onstermint, Band 15, Selde 1713-76. 1911.

MANAGEMENT OF SECT. ALE

Womaner or etc. ag

who are constituted and the first plant about 50 of the district and the strength of the s

in a still, fille mertain of the intensitial spaces, it decrements the air space when it enters the coil and increases it when

"Backaghan, R. Contribution to the Therrings of the Newton of Rule, Tr. St. IA. Bur. Galle, Bol. SA. 1861.

it leaves. The discreted represent of min motor year duces a movement of soil six by foreing it out though the distance channel below, while set the more store a break supply of six is drawn in behind the wave of nature. tion as the water purse down from the surface. The movement thus consistent extents to a depth where the sell becomes permanently saturated with wares Treaty-five per cent of the air in a sail may be driven out Therefore, the event of their the sea along he believe as, by a smartle draugh in the actives context of the sea. 1880. Change in a transplant present. Potent of this or do no danaphotic present, beyond the bridge a through 400 their of the recently going; can the sea forced the best of the recently going; can the sea forced the best of their their potential to be present who their oil with the proposed of the deed, which is high present talking course the sea of the first of the season of the season of approach to the recent present, provenent of all six household as its very large contexts a first very la approximate, but we emperated, movement to see as a produced in this way.

The size of the interstitial spaces is more potent than

their volume in effecting soil reptilation by this and the following methods.

900. Changes of transpentiture in atmosphere orinted.

A movement of soil six may be induced by a change of temperature is the atmosphere or in the sed itself. Change in atmospheric temperature act in the same way as dechanges in atmospheric pressure; in fact, it is the effect causes in attrasporter pressure in tack, X to be even of temperature on air pressure that causes the tourneral like the correment due to tamophoris pressure, A is unit gent; but where the scal introducidy at the nature of the proad utilities a temperature of 120° F. of middles, as is the case in the Cost. Relt, On monorant must be appreciable.
The digraal charge in soil temperature decrease

apily from the surface downessed, due to the absorption and down conduction of hast (see par. 187). At the Nebrolan Experiment Station I the mercy diseast enge for the month of Augusts, 1881, was as follows:—

Broader Raisin of the use for Transactions

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Sel Linch helps surface .							
Sed Linebes below surface.							548
Sail Similar briber nation							9.2
Sail 9 inches below surface	,						6.6
Sel 12 index below unfur-							43
Soil M inches below surface							0.5
Cal to have halon enforce							0.0

This self contains short filly got exit of pore, you in the apper feet of which first got one is meanly filled where does not not contain fill when the containing the answer another. The beam fill will not not not the post on the upon the less of will. With an termina is interpretative, the or copying high in whose to importative, in in the case, when III degrees Euberheid from the first fill feet. The size whether is better to got a wide fill by not when I will will fill be to

$\frac{500 \times 11}{100} \sim 10.8 \text{ molicisches}$

As the a lightly one too per cert of the sir contained to the upper tool of only, and as the movement below that depth is medigible, the change is composition at any

Servey, U. D. Sell Temperature at Lincoln, Melecular Sch. Apr. Sec., Sec., 18th Aug. Rept., pp. 65-662, 1948 not fine in red genet, that this proofing after in layer up day after day, although loss competionly in the coder reason of the year. In present on the design engalest the competions of word present this layer of crimation. The total effect, enabled by officious, in the air interaction presentating the set. Control of the interaction of air in the interaction (present, but are capital in different interaction) in redshifts.

orbation. The total design statistics of offices in the instantile in military text. Giving a thing, the six marked in military text. Giving a thing, that is the instantial in many text and the six of military in the contract of the contr

METHODS FOR MODERATING THE VOLUME AND THE MOPE-METER OF SOIL AME

The conditions that influence the restriction of subtre. (j) volume and size of the intential spaces; (i) tensions confert; (i) shifty and account range in for-

jernture. Although the size of the intensitial spaces does of upper to greatly influence the influence of gases from a cell, it has a marked effect on certain of the other paceased by which is enter used leaves the cell. A modify and, a sail in good thick, and, particularly, a sail emporal of clock, premit of tozer rapid assessment of six than does a compact and. File a cathir mount of the though to an all a good has a cathir mount of the transpring and a segment in the transpring and a very contribute outward, for the transpring and a very contribute of the transpring and a very contribute of the delivery and the part of the cathird and the standards investigate only the file and the transpring and off the cathird and the standards investigate any to discover the cathird and the part of the cathird and the standard and

is relational. At Tables — The entirely openions of elliggually distinct the tradition of the table is a part of the control 400 Manura. — Form marrors, limit, and those associates that improve the attention of the still, loss for that reason a localistication or not section. By their offset or the physical condition of the offset of the physical condition of the offset of the production of carbon distributions to premaribly, and by their trains in one tributing to the production of carbon distributions associated in the production of carbon distributions.

Strikery is het probables of maken deside they dissi-te follows: A best of the strikery for what-ch is shiftly desight in desid is investing for what-ch is shiftly desight in the strike in the shiftlers in the strikery and the shiftly and of smaller spine. It may be a be injustice in the shiftly and the strikery and the shiftlers in AC. Residualization. It has more than the said-then when the shiftly specific and the what find a box life must rather years, at the what find a box life and strikery specific and specific for it is also a very confident between the strikery that is a second of the small of the strikery than the strikery that the strikery the strikery than the shift is the strikery than the shift which were the shift of to winde to make extent this interresting layer. The

In seinch to senic critar this interreting layer. We seization of the side brought about by anotherways in our of the broadrial features.

400 Infligation. The inflience of irrigation on the sent in mode like their of middle. The alternate filling and complying of the intentitied spacer unit, setter and are arranged as well presented though of air.

400 Completing—The most of plants lith in the self-after a respirate better harmonic drougs and have bloomed in the office and the arranged drougs and have bloomed in the office are with the constraints. Patter the first that off the out-office are for the first first that off the out-office are for the first fir

in the soil through which air practicates. Below the fit-our size, where the soil is not stirred and where it w usually more dense than at the surface, this affords at important means of sération. The absorption of matters from the soil by roots also course the six to peachtain, in order to replace the mater will obtain.

CHAPTER XXIII

COMMERCIAL PRATTLESSA

CONTRIBULE PRETINEESS

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In 1804, Theodore de Sasseym ^a published his electrical

¹ Tel. Jethe. Boss-Heise Babautty. Louise. 189.
³ Bighy, Kesler. A Discrepe Constraine the Versalise of Healt. Imples. 1600.
³ Saurers. Tenders. do. Rocherches Chinquae per la Registation. Peris. 1001.

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secretion on plants, in which he, for the first house, made attitutes to the objections of the adjustment of plants, and printed not that without two, plant life integration and, funding, that only the all of the plant area in brief of both the plant. Draw our Linking! in his setting published beat the middle of the interaction causing conjusting all arms straight the hypoteness of united matter in the plant and the restriction of the number from the plant and the restriction of the number from the life attitude for through the hippings. above their codess from linears, but he made the mi-take of attaching little importance to the persuac of larges in the wil. He showed the importance of persusim and phosphoror in manutes, but no his later expen-sions he fished to appreciate the naise of integeness manues, building that a sufficient moment in marked

from the strampbers in the form of amounts.

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"Links, J. Jerker 100. Thirespine of Agrichmed (Medicity with Special Subsection 1) in East Discussive of Advisory Medicine 1985. As Chemistry in its Systems to Japan (American 1985, Advisor Advisory Agriculture of A

Between 1810 and 1800, Six John Lower began, the unauthertone of home superphosphate, and chost tomans time Petroine guant and alteriate of each way locaciously into Flavage. The commercial fertilizer land only films design from that form.

the date from that fear.

411 Carre of marrier — White means are vey marrier as follower of marrier activities marrier and place a male of failude basics certain marrier may have a market of failude faculties, they are got be negligible from the face. They will conveningly be totally here market the failuring basis: (1) convening facilities.

(2) will associated by failure marrier; (2) got marrier failures.

manum.
483 Commercial furniferon.—Although the congrecial fordines industry is little mover than held is entury off, the whole furniferon in this country amounts to maters. \$11,000,000 convally, defined relates when plantation fordiness are superiod, while related or deals and potential with an important.

(If the helditermal little of helditermal plantation with are important.)

Of the locidizers sold in the United States in 1905, whose life year cost was conserved in the Stateh Albade States, in an area, lying within three boundred solds of the subbased. Monthly conshell of the consistence was seven channel in the Middle Athender and New Forgland States. Only they pre-enter was purchased wast of the Missingia Birm?

Bines? Financily the function of connected furtiless is a sold plant entoines to the sail, usually in a fone warmedity, while then show abody present in large varities. While state beneficial offers may be produced by tartion furtiless, these are usually of severality inputtance compared with the adultion of the plant solution. Statistics from this color of the brinds State Spherical that formers, p. 674. Western, 1988. (d). Perfiling continents. — Proposed brillness, so find on the matrix, are mady recognized of a newher of importants. Some those we the current of the fermion waterial, and there is no their companion and polyllogical distributed for the arthur of question, a burdeling of the proposition of these constituents is of infrared to carry our who are further made in a valuable side in their partition.

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In sweety and invariated held the editorest of numerical sales and nitrites forms a larger proportion of the sale ritrogen than does the nitrate nitragen, but in well placed units these companies upon it very small question.

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49. Forms in which witness in absorbed by plants.—
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name fare.

418. Atmuseix as a plant-food, - That the plant-will swamps one anamous nitrogen rather than other horse

tes been introverented by Kellner I and later by Eddig!

and the interested by Color by a law by Edge-th chapter is all, because it is personaled into a gas-cular data belower by spreaded into the color allow that is decay with mail a store that are plants. In that, we made decrease to the sear of the new below the sear days on. I the chapter is a construction from a distance of the color by the decrease to the color of the color of the color stages from a terminal and as modify a form addon-tor, but the whole and allow the observable of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of the decrease color of the color of the color of t

the regarder netter on a rela disordly decorded by high-plant. This explain was thermated nettice explaned by the mineral theory proposeded by Liebig, and still alter the discovery of the melodying, process absent of a panel completely of the belief the explain matter is a lead to higher plants. If the spite restant, however, that we expend in Parison to composed from the still actions material for more higher plants without mole-rations.

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the the following Let of the organic substances used in

¹ Editor, O. Agricultumbranius Stadius Der de Friedre. Laufer Vor. Stat. Faud 20, Stadius 24. II 1864. ¹ Edita, N. P. The Assistation of Morgan by Eller Assis Spr. II, pp. 1864. ¹ Assis Spr. II, pp. 1864. pp. 370. 1811. ¹ Patrichius, H. R., and Miller, N. H. J. The Direct Standards of Lauguage and Optoin Henry of Morgan Distriction of Lauguage and Optoin Henry of Morgan District Charles. ¹ Distriction of Lauguage and Optoin Henry of Morgan District Charles. ¹ District Charles P. Stat., 11, Tuno 20, Phile 513-547. ¹

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This intercoprises only those relationers that have been used in experiments with poss. Many other relationers remain to be tested, and those obsoidy tested may not differently with other plants.

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"Story, R.C. I. The Joshica of Creations from Sols. St. Dr., Sols, Roll, Roll C. pp. 11-23. 1911.
"Stimme, J. J., 111. Effects of Creations on Mark Growth. L. D. A., Res Sols, Roll St. pp. 23-44. 1911.

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Demand of its open contribute, under notes, and expended in large speech. For this same it is set about 3 in which predicts 3 in which predicts 3 in the contribute of contributes of the contributes of th

The continued and abundant we of softies valued to the self may reach, though his delacubility action, in leading down aggregates of self periods, that comparing and injuries, the entructure. This offers in attainated to the extractabilities of softiers with, puriodiciple, earlocants, or the ordinant is not critical by the plant

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*Hall, A. D. The Book of the Rethnested Reperints 1, 25. New York, 1905.

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The intensities of the stoppy of nitrogen in most make may be unmarphisted within one or two providings of on, taken several of the napply is longly during an own. Notes precess provide for a noted as continuous design. Note with the name of the name of the throat of the transplant of the throat of the transplant of the transplant of the throat of the transplant of the name of the transplant of the trans

calcium quantité ou d'altima térité.

24 Cyannité — The trib a tour les calcium quanité is "quantid" and that naire le therefore met is this volume. The precess fet les production d'apranité mainte le peut printégar à los deuts de tour au la canadité peut printégar à los deuts de tribuing portices calcium outriré basted à a high temperative; de protect design urbans quanade and for calcius?—

 $C_0C_1 + 2N = C_0CN_1 + C$

The free carbon remains distributed in the exponents and gives the facilities to black cader. The interages required for the process is obtained either by passing at over heated copyer, or by the fractional distillation of liquid size.

The fertilier, as plend on the market, is a howe, black product or granulated and aids with a securative fitagreeable oder.

524. Composition of eparamid?—Comment to mare

524. Composition of operantid?— Cycentrial to mark.

"Operated in a tride turner: the observed compound in
a pulled operatorial.

				he sut
		÷	CaCM ₂	45.92
,		·	CaCO,	4.04
			CaS	1.72
			Cast,	0.04
			Calable 2	36.60
			C	12.14
			R _i O ₂	1.98
			Sith	1,61
			MgO	6,12
				7.11
			11,0	6.33
				1.29
	* * * * * * * * * * *		 	CaCNS CaCNS CaS CaS CaRNG CARRO CARR

Seculiary to the emposition that retainst wash con-tentile in the following. Here is the close of the last line and of others. Here is the close of the seculiar that the close of the close of the seculiar of the solide of the close owners, which we are required in the close owners by the close of this content on the forest the close of this content on the forest washes that of the in shapes there would be than the owners are the close of the

SIN BOILE: PROPERTIES AND MANAGEMENT

The acid calcium exponence quickly love his calcium, leaving free symmetric. Investigations differ on to the process involved in this change, but the utilizatic mask tim of the calcium is carbonate. The three explanations of the process may be represented by the billewing as

L (CN, NH)20x+00x+H;0=2 CN, NHx+Caros,

In this reaction the nation disside of the soil states is suprosed to cause presimilarity of the relation.

2. (CN, NH), $C_0 + 2 H_0 D = 2 CN$, $NH_1 + C_0 (OR)_0$

In this case hydrolynis occasions the reaction. The hydroxide would, of course, be converted into extreme in the soil.

By this results retein operation contracts is as in-termediate product, but is at once hydrolysed and fore exercising produced.

The vert stop in the process is the formation of area by hydrolysis of the loss operation in:

The changes up to the production of own are independent of hasterial action. The new is converted through two terial action into amountum carbonate:—

 $(0)[NE_{3}]_{3} + 2H_{2}0 = [NH_{4}]_{4}(0)_{2}$

This part he converted into nitrates in the used season.

pit The care of operatoril.—The charges on local department on these data proved under between the conficient in the set. White conclides the case the conficient is the set. When conclides the case the conficient is it set?—as we are of the injuries product to be found. For this trace or possible and this contracts. The case all the trace was in high resident from the case of the injuries or an higher tests. We very such point it is not with middle. Out within its man, take it have expected between the orthoring the conficient is not groundly below that if within its man, take it have expected to the if a transmiss affects the contract in a however produces to

The should be incorporated with the cell of it that a work blem planting not it may injure the purery plate of the composition has at proposition for complet the consequent of nonrelative factor proposition. In it is count wisdome, but demonstrative factor in the process and while the law years plants, there is no adult to work for the surcution. He does not provide the work for the surrelative in recognition with the cell for its Paper description.

If I Calcine plants—The other process for cul-

81. Coloine shorte. — The other process for contemps at companies in tempts in of more resent inventions that that for the constitutions of achieves quantitative in the conducted on a companied such in this country, whiches contraportation in the contemps above, which we comparation for the chapting offers for power shield use offered in certain leadings, features at the constitution of exhibit ministry will seem that be desirable.

The proves couplage on electric are to produce after:

uside by the combustion of atmospheric tileagen, acrosing to the simple equation:

N₁ + O₁ - 2 NO NO + O - NO₁

'à very high power is required for this synthesis, is, colong a temperature of 200° to 300° C, and sign expresse of the operation in determined advects entirely by the east of the electricity.

The hitric cuids gas is passed through nells of line, giving basic culcium mitrate:

 $C_0(OH)_0 + 2 HNO_0 = C_0(NO_0)_0 + 2 H_0O$

(with; § 3.00%, = Conflex; § 7.00%, = 7.00%. The allows these noting from the process has a primarile wide of the conflex of the conflex of the conflex of the conflex of the conflex; the conflex of the process has necessary judging as control filter in the process of the conflex; they produced, a bour chairs and the while continue thy \$1.90 per most of 2.00 pers. Another way assign the difficult is provided by the finitely and conflex of the conflex in process of their consisting the product, the conflex of the

13 per cent of niturgen

Calcium nitrate contains its nitrogen in a form discribnonlikile to plante. It resembles sediom mitrate in 20 solubility, availability, and lack of absorption by the soil seasons, seasons, are not a transport of the seasons, as it exists in principles within policies and within and then not lord in form a cross, as does not form about.

The relative values of the different valuable integrit feedilizers vary with a great many conditions and one feedilizers way with a great many conditions and one feedilizers.

arountely judged only by a large number of tests. At

speaked printed only by a large matter of teas, at great that the other more and speaked in large paper, that the other is the significant on the same party when the control is significant on the same control large at a significant of the same and the same large at large through of teas, at all the party, when the control is subsidiar singles, and when the control is subsidiar singles, and and the control is subsidiar singles and the same of the single single single single single single single single for the single single

The negle made from seeds are primarily stock foods but are sensatives used as matters. They demanage rather shorty in the sail, owing to their high oil content,

white solvey in the self, owing to the light of confident proposed and manufacture probability for the feet does that proposed as from manufacture. They contain mean plantylenes and possible as well as suffragent.

Beautrematic of the command, and constant of non-feet. The composition of grown describes the feature of the region in solved it, a found, Conce from a well for region in solved it, in found, Conce from a well as the contraction of the

508 BOLLS: PROPERTIES AND MARAGEMENT

phone—the principal and permitted having from harpy, bashed not. In a sky point the storper oriest near and with water so in and quarticle, memorials. As the proceedings of the A design proceedings now amounts. The phone pro-perty as a chain property, arrantess place of the phone in present as a chain phone phone, and the phone has a phone of other white. A prince of the phone place of the chain. A prince of the phone phone is the fourther of other is fourly pathic or home parties are after the phone of the phone phone in the phone phone in the chain of the principal is not with the not. The most principal is in a story of the phone phone in the phone tains from 10 to 12 per east of nitrogen, from 12 to 15 per east of phospheric axid, and from 3 to 4 per east of

points.

Game was formely a very important furfilling reserol, but the might has beener as nowly exhaust

that it is might has beener as nowly exhaust

that is missingly supported the general con
Of the chaming-product, their following the mine the

description. In fact, it produces reads now quickly

that may other form to coping intimpore. Now one

contifies of all formelyte to descriptions and another

my mine form to execute the contraction of another

pring. It should be applied the that is letter than 10 and

mixed. "The latter described has a mine than 10.0".

sping. It should be applied to the sold before the registrated. The lines there that of making rimers 2 bet per most of phapholicated.

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Just and, while high in singue, therefore the solventary design in the solventary of the solventary in adoption of singuing in adoption with.

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stangement brill son. A few until test, in which sitrage of sofa and automation attlets are used as a basis for capperant, are given in the tolls below, the intervent length in form of personals variability with a situate of such in tolice as one knowled. The confirmation question are constructed by Winger and Dounch & Mohame, Anking, and Heiston, and by Workhess and Lignant.

Ранкинаст дуклапият от Рангасти Миносан

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		-			-	-
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Sulfate of amounts.				96		30
Deled blood		i	ı	73	T.	64
Dras meel			į.	50	17	
Shelio resuges	 			45		13
Tanas					- 69	
Hern and herf med			1	23	16	
Lighted Bank					50	
Cottonwed most					15	
Castor poment					65	
Weil nade				30		
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Dry pend feb. 20 16

One-difficulty in throning cumbulous from these capitiments in that the substance grouped under the same are not always identical in the method of this

operation as in this composition. Louder inter-preparation for the first that all roles due to troops to any train from the first that all roles due to troops the same readon force in any one trailor. These Sader from this is not all roles from the same and the same readon for the same and with in the wait to worse was tentimed and, while the role of the same readon for the same factors of staffs and and flower that II, leads factor explaint the invasible to the continuous and factor of staffs and and flower that II, leads factor expected to impossible to have or cleaning factors expected to impossible to have or cleaning factors expected to the proposition of the same factors are the relative small leading of the relative and cost complex decoupage facilities. A section is neiss opinic virugence feriless. A considerable senter of these experiences are, in the aggregate, and a a positing out the probable relative availabilities of the nur wilely affering attengen-being minimum.

FREE LICENS THESE FOR THE PROPERTY.

Plouderts is growelly present in continuous with line, too, or alterna. Some of the physicists centain the copasic matter, in thish one they grantly many some advance. Phophetic accorded with organic

and alongs. Repulses accorded with engine-matic decoupes one pickly in the sult than dom-tonated missed phosphate. Permetly here seen used after the prosphate. Permetly here seen used afterly in the resultation research. When result has a facilities rure peakly from when proceed. The internation found the present of pick-phics and of you can of alongs. The ploughous when the runs of missed peakly the Septime.

Sadnik, W. C., The Amendijing Ministry of Cortish Colonels Sols. Colonals Ign Rap. Sta., Bul. 184, pp. 325, 192

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steered. This free is from let seel extraproots make, both of which we used in other way. Stormed hong, so we wished we is briften than 100 to the cheese do it in the latter return's descriptation and also beauge meaned how is in a better medicated contribut. The formed of the planes and if the time as in an and seal of the free with all the free is not and sealables from 20 to 100 ftp or end; of the posting which the obstages in ordering to 15 green end.

These tractings which has alwestly been against and say the contribution of the contribution of the contribution and the contribution and the contribution and the contribution of the co

and mandation from 26 to 181 per entried the protein which the shapes advanced to 15 per could be the changes, which has already been applied of the strongeness furtiliser, contains from 2 to 8 per event of phraphosis and Jungly in the form of bisolitons intepriors. All from how phraphosis one time using macross, and should be up in a bulley quarter flow and for the personnel howefur of the chart order than as an immefiest, some of silvers, or a belocking.

the previously household the noise notice than as an impediate across of integers or phasphores.

\$11. Mineral phosphores. — There are array included species of wiseral phosphores in different parts of the world, some of the root important of which are in North America. The phosphores in all three is in the form of circulation phosphore, but the materials associated with it way greatly.

Agade is freed in the president in the province of feather and Qualete. For each other in crytains from. The stretcham ploughts of which it is compared in its of firm assessed with qualitation flowly and in the other with soften orbits. The Consilies spalls contains short 40 per not of phosphoin and, being right that the final develor. Chapterile is souther many for apallet, but is chiefly applied to the inputs samplesse from.

Copylites are concentrary notales found in the challe or other deposits in the south of England and in Proces. They contain from 28 to 30 per cent of plant

612

pheto aid, the other conditates being adoing authorities and office.

food: Carolina phenolate contains from 38 to 28 per cut of phenolate contains from 38 to 28 per and of phenolate contains and demand at the contains and demand as the second of the parameters of expendentials from each, their presence.

conductor of superplayable from any date present superplayable from controlling and that has a party of destrible— not controlling and that has a party of superplayable for the controlling and that has party production and the control of the controlling and the party of the controlling and the controlling and the controlling and the party of the controlling and the destruction of the controlling and the controlling and the destruction of the controlling and the controlling and the destruction of the controlling and the destruction of the controlling and the controlling and the controlling and the destruction of the controlling and the controllin

emiting how \$0.000 or and physicisc lead. But shape, as a law called plenging single of the Brown physicist, in hypothetic in the metaletics of both property and in physicists. The phase proced is usually encodered in he in the form of the chain physicists, \$(201), \$(1) and procedure the both physicists, \$(201), \$(1) and procedure \$(201), \$(2), \$(1) and \$(2) and \$(2) and \$(2)\$ and \$(2), \$(2), \$(2), \$(3), \$(3), \$(4), \$(3), \$(4) thephone is more readily soluble that tricalcies phasplots, the ground stag is applied directly to the soil with-out treatment with soil.

The degree of finctions to which the slag is proted in Supposed to be an important factor to determining its adultity in the scal. It is much more soluble in water

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charged with earlier Bookle than in piece sector, a properly that greatly increases his value broases of the first that and water share section corner of no of the gare. It is, also mailly sected upon by organization for this consetion permittedly effective in a part and, and bloomly in most sole deficient in firms. As it without a consistently quantity of the time it has awarder bracking defect as with with.

All. Sperphosphale forfiliars. In sofer to ender note reality and the top that the plaughters contain to the sea of thirds happealing, the reason where the hybrid model and finely ground, it results with utilities all. This neutron is explanated of plaughters and by authorized, with the formation of notesticistic plaughters and order in utility, and a neather neutron of deal of replayment, arounding to the medium to the control of the other plaughter, arounding to the medium.

Ca₂(10₄)₂+ 3 H₂SO₄= CrH₄(PO₄)₂+ 2 CrBO₄ Ca₂(10₄)₂+ H₂SO₄- Ca₂(h₁(PO₄)₃+ CSO₄

The training ploppine long in case of the advised and appear of its sensite reduced. In the case of the advised and appear of its sensite reduced. In the extent of all phosphets are also must of the advise of its sensited in early use of a shirm and sequence with the case of a shirm and sequence with the case of a shirm and sequential to the long of a shirm and sequential to the long of the case of the case of a shirt of a strength or the case of a shirt of a strength or the case of a shirt of a shirt

alminim wifates.

In the extendoruplates made from home, the iron and alminim suffects to not count in any considerable.

procession. The record with a part of high policy are sensitive for the set of the conflict of

other pairs as a military way.

488. Resulted phospharic acid. — A change susceines occurs in experyleophates on standing by which some of

the phasilianic well becomes less easily enlittle, and to that expect the value of the fertilizer is decreased. Thus change, known as revenion, is much more likely to occur in superphosphates made from nock than in those derived from bone. It will also vary in different samples, a red-

hea hea. It is all also very in different complex, well-ant while unally realized first deeper not whe head coding. It is regarded to be much first process of authentical first bendered polyapists and of the sub-timation making of the process of the process of the con-lexy polyamic in a minimation of the process of the polyamic in first market for the latest polyamic in first market for the latest polyamic in first market for polyamic in from the other lost applied in the con-position of the control of the control of the control of the con-trol of the control of the control of the con-trol of the control of the control of the con-trol of the con-tr

theoretical principles in although not solvible in water, in restrict values in thinks adds. It is now generally believed that in this form an available supply of planphotos is furtished to the plate. In a scatterest of fer-

phone is braised to the joint in a common of the first analyse mercel phosphone is to could be should be a first an analyse mercel. In pagin was in the original position of the country of the origin of from one to what the matter is the depend of from the country of the less which propagate alone is the validable of the less which propagate alones passed in the matter of the country of the cou

salarge daigne, the satur of which depends some or in or the properties of the probable with which is inside. No manile is reported with which is, inside. No manile is reported with which is, dependent only the the britter, it was become just being in the all with the land probable of the first presentable and in the britter. It was become just being in the conlet of the probable of the presentable of the state become consisted. The cross just been as the interest consisted. The cross just probable with which is the probable of the state of the relation to the content of the probable of the content of the crossing importance of some default, playsing, and with default and the content of the content of the crossing in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the content of the content of the cross in the cross in the first and the content of the cross in the content of the content of the content of the cross in the part is public out and the content of the content of the content of the content of the cross in the first part of the content of this substance: (1) kind of plant grown; (5) degree of basisty of salt; (5) forumtation of organic matter; (4) diameter of the accompanying salts.

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^{*} Prienterheiters, 70. Beriold über Veredzielere Verschr wit Hallphosphaten aufer Bertodon. Viscoux. 1900.

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"Cultrie, R. E. Relle to which force Phosphotos may be happing with Information. Journ 1920, Agreemory (Bookset, Vo. 12, pp. 828-820, 1971-820. 1951. The melboon are in chiled to Dr. J. Davidson for the translation. messandy accepting all of Galmin's exploration of ϕ_{ij} phenomenon, there can be little downt that last of basis, in a factor in the availability of now work phosphates in some soils. 439. Influence of farmenting organic matter. - Time

see. On the end of the control of th mass with two must induced both the multility is incomed by themselven. A logo made by the proper mans have been confused with Am rich proping compared with child measure, rares, which are morphorally that he measure, rares, which are mentioned from by placetol and Pertale² and also mentioned from by placetol and Pertale² and also experience hald to the that the conducting of the rear plopshar was increased by trimentom in which are handle to the conduction of the contract of the matter. Byposing small her made has default, have even, and the relations to suscered confusion, the cost, and the relation to suscered confusion, the who think that the relation of matchine the to the cold for matchine confusion of the conduction of the cold for matchine confusion of the conduction of the cold for matchine conduction. they produce, explains the contradictions in the suring day points, explain the certification in the server in-fluence, a District, Y and Piez, J. Debe do Pie and The Anthrope of the Sandmannian, Confeit I. The Confeit of the Sandmannian, Confeit I. The Confeit of the Sandmannian, Confeit I. The Confeit of the Sandmannian of the San

opprisents is withly farm the fillment high of se-mentains that the seguries earlier entragem. He finishe four of thermotion the through the service of which, which for mentals on the property of which, which for mentals on their members to see the service of the four-time of the service of the mental service of the in-service of the service of the service of the in-service of the service of the service of the pattern two four-time of the service of the service pattern two four-time of the service of the servi

Whatever may be the confidence under which care ends Water may be the modifiest works with the maj-digation in worder to workly shill be a waited played in the worder to workly shill be a waited by the centrifies of a specie particip. If not a space, the compacting which them are produced in the com-pact of the compacting which the compacting the com-lete stars would set majors as produced in the fact and works. We have been made by specie for at the law for major in the compacting of the fact and of them with. We prove out the site of the law for major in the compacting of the fact and the fact that the fact the considerable of the species of the compacting of a species of a species of the public the cannot be real and up to the com-pact of the compacting of the compacting of the com-pact of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the com-pacting of the compacting of the compacting of the compacting of the com-taint of the compacting of the compacting of the compacting of the com-tant of the compacting of

way briefly. It has been found for mature, that each offers methods to become the scalability of one reds promption of the tracking of the reds probability of the tracking physiques, while the ser-tember said increase thrie multilatifity. It we also know outsidity. The influence of other with the red when we will worth on. The introduction of the reds of the extended experiments on the onlying, both that

"Pianischnier, U. Usber des Kirftes um Kolionskares Beit auf die Wieberg von Verschuleten Prosphalen. Leufen, Um. Bach Barti II. Seit-187-176. 1811.

PENNILONIS LINED PILE TENEN PETERSOLIS

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and hat in not expect the ribble hybridals. Profession should be a might-read and our static cape, using should be a might-read and our static cape, using should be a bid-read and our static cape, as the orange should be proved to the minute spaces to be on injuries offset. The initial probabil is began profession by the Southert wars have the beautiful state of superiors advertise and specialize and superiors advertise. Southert wars have the beautiful state of superiors advertise and specialize and superiors advertise that the same effect on place in the Southert Souther

subset of progression.

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Photo constants short We per cont in the matters, but you for the man of almosts, it has be some effect on plants as has follow. The memorial form of petasian others for greatly notices and the matter than the per set of petasian others or 39 per sect of petasian others or 39 per sect of petasian others are beingly and/on chickle and "isolathe mineral matter. The persistant was "isolathe mineral matter, The persistant was "isolathe mineral matter, The persistant was "isolathe mineral matter," The persistant matter matter than the persistant matter m clicible and 'insulable mirran matter. The parelli-ing to creation region to the one of the chain's has already horn meritioned. For emprant malifacts, pota-nion climic in a quickly sortin and fination control in protection, and not the observation on Fig. 19, and High-grady suitable of patternation controls from 48 to 8 for creat of partial. Unlike the marries X in not in-tifican to cross, but is some conjective.

Then are a pumber of other Stanfox salts, considing Then are number of other Statest ask, notesting, of electrons of potassius, so dispenses in the form of electrics with relative. They are also writely used for feelings as any fiver performed above. All Ward (affects Persons from the first the control of the co have as talended were other contain from 5 to 5 ge cent of people, and a most b per cent of people, and an object of the south b per cent of people, and b people of the south b people of people, b per cent of phore-photon of all people of people of people b per cent of pinc. The people of b peo

48. Involving parameter feetings. — Involving from the plantage, episting in case years usually in the form of a solitor, are not expected to builty any motorial value. Experience with only proved delayer to recommendate lay assume of emosphates, but thous, in the main, given little successpensed for the removal use of this natural. As metables from of problems is not given any value in the entity of a further hand on the results of the analysis.

SILIVE AND SILIVATES IN PRETELLINGS

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"Pontager, B. Astico do moto se florrer la vigitaire. Donpt. Dond. And. Sd. Paris, T. 251, pp. 888-370. 1912.

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midized in soils' eventually producing solidate with bases in the soil and in this form may readily be taken up by phorts.

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*Rame, H. N. Des Leutherschien fro mêté le maller Worden quant de recomb ner he Dempt. Band. Acad. de Parte, T. Ob., 59, 874-973. 1898.

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IN SOILS: PROPERTIES AND MAKAGEMENT

my system of soil management that does not include one ar more of those substances would probably, in some sols at least, be improved by making provision for the application of safety in some from.

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COLUMN EXECUTION.

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bite muner. 447. Cartalytic action of smis. — Most smis themselves 41. Control conto a sent. — most one control of the decomposition of hydrograp provide. Many substances, both negative and inefposit, have this property, and it is not necessarily. existly but to the soil after the cepute nature has been decroyed by ignition. It is therefore not due to an exquest as stated by Thing, Hausshimov, and Coppo-mitally with ordin contrigued the subject to carliedy to equitate between the suit. Doubthers there are several or perhaps many, advertising solutions and of which have this property. It is shought in high dust their entity-onthis prosery. His silveythe field that the entity are entit a rule, and the Quiet, various reactions that an construct in plant production. Among these substance, as planted on by Nitrig, Hamiltonians, and Copperatul, as a supposed and four orders, with the well-leaves to court entity for soften on certain markets. With each court entity to soften on certain markets. With each markly prosesses that substances, the sees parallel to will further softwate pome soft to pure a spiritudine.

to will instant accepts some soils by proper applications of as-solled condition for failure.

Ungaine matter in deutilizes commed in the catalytic properties of soils, and the investigators yet restricted from the ten air soils the certifyelf artin about in stand in standard distinct reliables to the human centeral; Soffma and Beight havever, still not find this correlation to hald. Buth threese, set not but the contribute in held fight, properly and integrate substances are invaried in this properly of scale, but the forms in which they operate are not well understood. In the most productive scale, have a strong catalytic effect and very your with are weak in this respect, but this correlation also in not needed.

[&]quot;Table, J., Tourskamer, J., and Corporati, D. Strigs Sun Toperceation can electronic Laufe Vern Reis, Band Glossef-Hger. 1987—198.
"Exist. J. Domakhamer, L. and Corporati, R. Revis-mer revision for Hispanishood to Delicer of the Nils-off Resident street fine strance. Laufer. Vern Hatt, Earth Schies 444-48. Exist. Schies in Schies Schies. Laufer. Well Rei H. a., Exp. Schi. 1983.

48 Styrene und a stable, ferilitare. — May make of shirtness her for literal to see an culpid forfacer. Among there are values have be culpid forfacer. Among there are values have be supposed, vine, hallowing the form of the collection of the culpid for a collection of the culpid for a form of the culpid for a form of the culpid for a form of the culpid for a distribution of the culpid for a distribution of the culpid for a distribution of the culpid for a for a cu

water officers a much less quantity of any of from graphiquited proporties any injection sizes and period from the settle from them applied to an equal values of soil. The observation proporties of leads and the lates analy officelisting serve to minigate the task nation. Different thind of places separate differently to the serve connectations of any of them relationary. Per instance, Mantanestric Vasual Cast America, report, one, relates and mantanestric Vasual Cast America, report, one, relations, must destribute out brack the department of bears and articles the agent instance of mining and concentrations.

Of the various plant simulation applicately, pumposes is the only one that gives proving, at the posset time, of usefulness on a commercial back, and it in the only one that will review expands treatment in this book.

449. Mangazano.—It, course probable that all sold

49. Maggaree.—It cense potable that all olds centain maggaree, but the quantity person is some solds in very small, often being less than 0.01 per cert in other sold, however, more than 1 per cert in form, and Melly 2 reports an Hawainst soil containing 2.74 per

*Honomurint, L. Quated with other arperturence on the active by M. E. J. Miller, in Annual Reports in the Progress of Channier, V. D., in. 224–230, 1984.
*Acty, W. P. The Information of Mangature on the General of Passageles. Jour. Indian. and Rep. Olem., Vol. 1, p. 357, 1993. cost of MayO₂. Sollinan and Robinson' examined benefit six American with and Secul the content of MayO to vary from U(O) to OSP per cost, the security being 0 (II) per cont.

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46) Britálecto de la estaman — le est de formor y le Peccul e de criacion e descrama in le colonge estama el tient ma de contrario in le colonge estama el tient ma del en fatolini a le colonge estama el tient ma contrario poro el tale cambiequiste del regueda de era en calmidar gondi intrasporar subsi invenzo plus gondo. Le Desad de Paragoner subsi invenzo plus gondo. Le Desad del religio in la requesta to sucqueste, vida respect del religio in lair requesta to sucqueste, vida respect del religio in lair requesta to sucqueste vida reporte del religio del religio de religio del response del la polivitario in le supplicació en queste alla polivitario in le suplicación el resporte.

"Salling, M. X., and Dobinson, W. O. Manganese as a Petiller, U. S. D. A., Den, Rela, Chr. 26—1930 "Bartinan, H. Ner Jaking Opphare do Nel. Manganese as to Commission Conseque for England. Compl. Seed. June 8e. Print, Tome 124, pp. 1252–1263. CMD. to sub-laws not allowed as midutating results as langthe trial with water collens. Application of a cents and with a magnetic heapfield of the same rates indifferent mile, have in some cases produced internal growth, have in some cases produced internal growth, have in order cases had no appeared offert, and have in all other many provided injuries to place in means for this in condense to be found in the inhosts proporties of the particular soil to which the application is usuals.

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50%. Dates of nurspieses and response of sola. The management will be last how been found to be inferious on the solutions are the inferious one of the little, the chiefe, the inferior, the inferior, the corbonate, and the dissile. Of those the rime has been not greatly read, and in particles up to 80 praint on some in his in most test and the motion. On silf which is not say that the care of the interest of the motion. On silf and on very produce with Silleners and Silleners, in the experiments rimed alreas, from it is to be inductive.

"Elizant, J. I., and Millione, M. X. The Astico of Margames in Solic. U. S. D. A., Did. 42. 1914. ghis they obtained approached beautiful town its use or pure eith. They separe that since may productive each inter post solution power the use of management in assessing, that since work in deright introduction in the stimulation that this process notices by the speciation of management is producted of used goal hashedingly management on most published yeard or your solution of the contraction of the contraction of the second production of the contraction of the contraction of management of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the second production of the contraction of the contraction of the contraction of the second production of the contraction of the second production of the contraction of the

CHAPTER XXIV

8011 AMENDMENTS

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48. Now a thin and borrell state— the days able to the days of their a borrell state— the days able to the days of their a borrell state— the days of the source of the threshold are reported to the self-neighbor quantitude by distinct such as the contract of the problem point of their analogue of the problem point, and days served to the quantitude of an advantage to easily self-neighbor point, and point level only and quantitude on such year. There is a kinday to provide the point of the Alley Self-neighbor point of the point of the Alley Self-neighbor point

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Principality, D. Other des Hadan von Kulderhates Rate of die Wildeste von Verscholesse Pasphiles. Landw. Von Han., June 22, Deies 357 375. 1915. 586 SOLE: PROPERTIES AND MANAPENCENT

plants aming from the pressure of earborate. Neither did the assistability of iros or distribute phosphate appear to be induced by calcium controls.

appear to be unknowed by chronic encourage.

These and occord caparineeris by Simonomuscher ¹ and
others tend to Murnish the entire condension as quoted
above and as well forth by Debenio ² reposing the freeable influence of line on the availability of phosphora.

the influence of large on the availability of physicals.

However, the purposed-trip relations is still with the conference operations. The principles that availability of phrapherus are decarded up pumpquich 200 and pumpquich 2 must be present with which the sirbt and my service, otherwise regeners will be silitable by the task offest of the soid on the beaton conversed in the formation of the soid. The soldium of Servi Service commission which of providing the beat. This is often a settler of great morrors for respect that copyoint with the providing the soid of the important reasons for supplying line to now soils. The first that ceases for applying time to now sold. The that the time plants grow better in some mile than in strongly basic cares in also an indication that such plants where a considerable part of their altragen in forms other these gitrates.

Many investigators have found that the presence of coleien carbonote promotes the samuellying and circle ing process. The addition of calcium authorate to a

"Scourzacion, W. Birnickang des Robiesmanns Relation der Danguag von Hebricklanns mit Messe und Dischter Phosphia. Larder Von. Stol., Bent 77, Raile (E)-471. 103-2 Delation, P. P. Traile de Chamie Agricola, p. 581. 105.

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the solo are from the same upon the plant. See pairs or must have exactly that of the solid for example, the solid hard solid bulber and the finite popular, and any will we say injection. Golden who, is containing adulty, reasons the tree condition spoke than of the solid part of the solid spoke that of pairs of the solid part of any spoke that the solid Department of the states, with its effect on the six persons that the solid partment and the first partment of the state band, they promote some disease, as, for complex posteriors.

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¹Reformaç X. P., and Rabinson, P. B. Line and Lecuri-lamidates. Animers n. v., Vol. 22, pp. 19-19. 1010.
²Refor, W. Jr. The Killed of Calerine and Magnesian Cor-besters on Some Stockess Transformation of Notices in Eds. Dist. of Call. Park, Apr. Bel., Vol. 1, No. 2, pp. 43-46.
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48. The Interrupcials ratio—"The physiological behavior of supposes by relative new first reduction to place of the reduction of the level of the reduction of the level of the reduction of the reduction of the level of the reduction of the r

In the 10th or beliam of militim of responsible had specified on the wings. It is required by his program or the wings is a required by his program of the specified of the control of the

³ Lore, O. The Physiological Refer the Mineral Noblesh of Physic, U.S. D.A., Den Anna Indian, Rel. 1, p. 33, 188, 180, F. P., and Laydon, C. D. The Significance of the Line-Mannelon Birks in 8th Annals, Journ. Larks, and Beg. Clean, Vol. 6, pp. 33-55, 1893. s: 500 (3d) to 1 Mg(1 by weight. On the other head, a 500 GeO to 1 MgG by weight. On the other boat, common application of magnetism stagements base free found in Lymbon or some side. For come any heavy day with at Gornel University, as equino-tion of 1230 parents to the ears of magnetis evolving between the yields of very low may be a few exceeds the yields of very low parts of addion and conjusting contributions of the eart of addion and second the yields of very low parts of addion and second the yields of the parts of addion and second the yield of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of addion and second the yields of the parts of the parts of addion and second the yields of the parts of addion and second the yields of the yiel

430. Focus of calcium — Calcium is used on the sell in the focus of calcium oxide, or quickline (DAO), outrestated faint (Ca(OH)s), an-skell faint (CAOQ), gened linestone, mari (also a carbonate), and calcium salide, or gypsum (CaSOs, 2 II,0). The application of any of these is usually called facing the soit, although any of these is usually called history, the soft, although agents close not served exactly the store purpose as the deather histor. Owing to differences in the subscalar weights of these recognised of inflation, it requires more of some firms than all others to durate the name account. of calcium. Approximately equivalent quantities of some of the common feature when hirly pure are.—

Quirtime St proofs Vote-slated line Herman Herman he daked line, mart, and ground lineature 100 younds Barblime, and the hydrate, whree aided to the soil, even-

detailen, and the fyrites, when adds it do not seen the same seen of the mate include forms of con-trolling not seen of the materials, even being promot, and extreb. We always detailed to have present it do and the same of addition referration. All, Carriel lines. Updation and valued hadden line a underlandy alkalen exection, all lacen solutions which yet parties positly that may call in the mil. Buy and quickly also in the entire, plant-lood, particularly and parties of the properties of the properties of the pro-

chapes. Some sub-respond more againly to quadriage as extravisible films that to extrastic of line, especially show the sub-sub-risk in the form of not any great line, these shows the extraction to the form of not a flushy partial continuous source being in sub-a flushy partial continuous source being in sub-a flush of the control of this has been suit to result in the loss of this control of the sub-result is result in the loss of this partial partial decomposition of organic constants.

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as the production of any on an epochasty and processored than that of control lime. Med (que, 27) of them from introduct lime principally in the property of large in a loss finally patientest confition. It note has possibly them then control lime. Origin this fact that made algorith defire proping in the conposition of their products, it is well to know the quality of the material below because of lime in and stay way from 5 on 18 to 50 or 55 per cent in different anapple.

different sample. In the sease desirating is north-Ground linestern to be a used extensively in northyears. It is very important that it be firely ground, as no the camminum of the matural much of its efficient depends. However, it is desirable at the intertion of the sease of the sease of the sease of the disruption since with 20 modes to the incise. git Salation of Suchristons of Louisi, Same and against — In the last for the what of great limiting, and after firms of classics without, reprisents, in which it was consent with contribute law proposed, and the firms of classics without, the great proposed at teas at the Foundaries Experience Salation, Salation and Salation and Contributed Allow Salation and the real terms of the salation that all the salation and the real terms of the salation and contributed and Salation and the real terms of the salation and contributed and the salation an ony to text, does that it does all found press; in every cast, that high was regards in the plant making most limitate. After the textures of the pith half her confirmed in this case, see, a de-lemant of all those primed in the type to see of and and the factories beard plant means TSP presch divinges of date, our to the delething plant to com-sist TSP press). It may be indeed for the chapters that the confirmed in the confirmed and the con-sistent for the confirmed and the chapters that the chapter is consistent to release the chapter country than the factories the release to make the chapter of the chapters of the chapters that the chapter of the chapters of the chapters of the thinks and the control of the regard that the chapters which could like presented the present the chapters.

you will cause the present by up you good some this label, and the carbonate of line in good of shift and while next. The average roops of mose, wheat, and hay were all larger on the plats treated with carbonate of line.

While these experiments these, at first places, results

[&]quot;Richm, H. J., and Stan, R. H. Quanti Breillere Styri-man, Proceedings Sci. Dirich, Rapit Sild, 1947 2, pp. 1878 — Anna L. Lin, St. Annielle, Practical, Practical, H. J. Line, Stermer and Baldien to Sept-villes. Morfault by Baytes, Jul H. Sp. 137-158. 1988. Annielle St. Annielle Styrim St. Morfault Ag. Baytes St. Konstiguing on the University Styl. Morfault Ag. Sep-les, No. 110, pp. 3-21. 1988.

rather foverable to the use of mathematical lines, a consist analysis of them by Weeter's mixes some death as the hydracopy of this interpretation. He point over, by interpretation of the principle proprietation developes, that is the Parasithania experiments developed quantitate of their were used, not that for fourth measure and restrained feetiless were expected to the plate is, trees which comparisons were made.

trees which comprises you raid.

There is sufferable; supplied their safety and the district that may be rigided to the studyou like qualities to the studyou like graphed to the subject of the offerable of their filters are set all transferable after sufferable properties and practice like the contrained below properties and practice like the contrained below proprises and practice like the set in single problem that has the level below. For their contrained offer most provided in the subject with properties and practice after the subject with properties with the late filters have been filled by the long of the shad, the subject with the subject to the late of the late

fine is not a demain a form to apply to vary quality, and well, expectly with the part folloy in the day, so the advanced and reprint next to with the fortunes.

48. Statter of classics—depasse, is which from calcium willing in wordy traffect in one by traffect on the condition willing in wordy traffect in one by traffect and the many term with a sea popular and amendment in the recovery before the customs command infeative were und in many part cornect. If foregravity so it is the same of lord pieces, and, so it was mader with the condition of the condition of

¹Wheeler, H. A. Is the Sommontaine that (by Grand Herschus Should be Dad for Agricultural Persons a Sand and Satironi Cos² National Line Mandatypool: AnS-Natl 4: 1912. part, and its desciouses has a queetly demand as the side on while it was well have been happy with collection. Doubly this has been been beinger allow gain between sever of his bit being at the part of the bear of the collection of the collection of the whole it has question and the collection of the collection grants due to expensably used used. It here all the collection of the collection of the collection of the acceleration of the collection of the collection of the descious carbon in the collection of the collection. As the histories because the collection of the collection of the descious carbon in the collection of the collection.

edeal of which has nower from tray clearly france-strated), gopours nerves to supply softer to the sail. The softer, while it may be needed in some sails, has the dis-

using, which may be careful in over 10th, but the informing of thing precise as a noted, and if the solid is abded in large quantity than in removal by plots, there is a combing loss of local mention in the densing out read is broken; in the process, public has words that a dark of wanted from a of the contract. As a sorre of colonis list of a mental, in, if a april of no web qua-tities as them is which the other form are not, in this as them is which the other form are not, in affair would be very injurious. Obtained it is applied at the rate of only a few banded passed to the arm at the

of the rate of only a few bounded possible to the arm at the broat. On this whole, press in the large press and of their an of their large and of their and the object their large products as the object their large products. On the object their large products of their large products are suffered to make with the large products the contract of their are a parket considerates in the only not the products and their large products and also parallel large products are also products and the products and the consideration of their large products are also products.

544 MOTTO: PROPERTIES AND NAMESUREMENT

The effect of soften chiefds on displaying and, in to flocate certain final intefects, turning which re-ceitain, magnetian, potamica, and phosphorae. This orders of things limited in unusual, is probably, in one case at least, partly repossible for the headeral action of account and action of account and actions.

of entirens salt.

The statutes of the still is improved by the application of scaline chloride, just as it is by time, although usually not to the same extent.

Another effect of salt is to conserve and distribute

Another effect of sail is to conserve and distillates and mixture. It excepts you have probably due to an increase in the family of the sail notice including transplant. The film ancomes of water in Resides increased by the process of sails in the shallow in the family of the process of sails in the shallow of in the family to the process of sails in the sail of t

It has been soon that adding is not over all the sphattanes extend to the growth of place. But that artism may be substituted, in use, but the potential sockrish by sphattaned places in their sound proofs, less best shown in this country by the experiments of Warrisan Adams? and the same majo would allow of the soften applied as a obtaind than of the putastems in the stated of which in some and possibly secretar in part for the boardical efforts of this soil.

part for the beneficial effects of this sid.

It is not all saids, however, that we beneficed by sid, its such larges not being of such with application as that of line. Certain reasy, as previously mentioned, are injured by the presence of chlorine.

"Wheeler, H. I., and Adams, G. B. Camerning the Apricultural Volum of Society Balon. Phase binned days. Exp. Sta-Port 100: 1006. All Mart — The dark of the high visit per daught the treatment of not high visit per daught the treatment of not holding a lower play as to find the contract of not have been dead of not have a single per and many reserve to the single country dark for terrors of the next, of the per daught the next of th

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*Lyen, T. L., and Bierol, J. A. Sami Reprisenses in Pop-Groung Thouby and Atlah. Chronil Dair, Apr. Rep. Sta., Sat. 195. 1953.

CHAPTER XXV

PERVILUER PRACTICE

The pareluse and use of commercial fertilizers in an This section of or of connection fertilizers is an amounted very respect and coly section fertilizers in column and including of the review and coly section feet in the column and column and column and column and column and the column and column and the column and c us to the effects of the different denotes on plant provid-ness to furtilize importion and norther is to matched in hydrog, as in house mixing, as to nethods and time of application, and as to assistance for special crops, the better in is due to write furtilizers that will reach in financial gain. That a furtilizer shall be purfailled as the ultimate denotes the furtilizers will be purfailled as next, either directly as indirectly, a moistual effort, the problem occessivily beautient into a study of the system of applying feetilizers to a series of crops or to a cetation, rather than a study of the offsets of our particular law liser application on one particular requ

Note—Fordermoisen (Irolling pration on Halling, A.R., Still Fordig, and Fordiner, Chapter L-17. State, their obtains. Dill. Mo., Van Syris, L. I. Perlikser and Cove Chapters. 19-25, and 29-25. Nov 19-6, Ref. Aut., Phys. 9-8. Persylve of Agricultural Cosmictry, Chapter 16. Ser-tem, Preseguence. Bill.

(6) Effect of titrgen on pint grows!— Of the one pintary obscurit of a leveline, hittgen? seems to how the quithest and not procured effect, and only then pintal in more of the other considerate, and also when materially used. It tends pintarily to enturing to describe procuring a benefit may be in the pintarily to enture the other pants. In this is the input of the times they may be in the first pintarily to the intelligence to intelligence to intelligence to intelligence. one to treatment strategy. At sente to create to in-crease the phinappees of the grain, and with all phase it is a negatiate to clost it governs to a contain extract the utilization of postal and frompitzer to id. Its application to do to produce accordance, a quality preferal and di-smalls in cardial carge. In its general efforts it is very sinks to mosture, reposally when supplied in excessive

qualities. The productty of nitrogen fire not only in its absolute were try for plant growth, its oftendation of the expla-tive parks, and its close relationship to the general tone and vigor of the ecop, but also is the fact that it was not and tigge of the crop, but also in the fact that the sun of our of the neighb absented of the mobile one. I bring the formation of the soil of similar and fined attailing in the soil itself mobile through the approach because in soil itself mobile through the approach of lacketed action. Been now it wints tought hooked up to complex times, are consument of the institut and the last charged segment, matter, and becomes also by available to plants

^{*}Discussor of the darks of the nation density in please with to found as follows: Bread B. A. full Cardifform and the found as follows: Bread B. A. full Cardifform and G. full Cardifform of the Cardifform

length through laterated rection. It may be rectal color article that on if the possible limiting betters, as one possible in length of the laterated the integer of the laterated the laterated the laterated the laterated laterated the laterated lat

practices.

Breacov of the immediately visible effect from the application of an intensively vision conversant may ap-plication of solvhile intengen, the average farmer in proper to seemle too most importance to its influence in proper erop development. This attitude is unfortunate, since ong desdopenter. The attitute is tradestatate, instruce, in the higher-priced constituent of ordinary largiform. Memore, of the three privary elements it is the major suches shell in some out rout it.

Bit the major suches shell in some out rout it, as married attenders on the crap. Hoperant formover, beader its function in the contribution and septicide processes of plant development, stup be latted briefly as follows:

- Histoges touls to increase the greath of the obse-greend puris.
 Histoge sectionly by encouraging regulative growth.
- It mays sometry of eccurraging suggestions: grows:
 This effectives enhances the comp to frust, or
 may make trees to winter builty.
 It immesses the ratio of strees to praise in coreals, and
 the ratio of leaves to undergooned parties in role. cropa

- It continue the shown and course belging in yours. This
 is due to an extreme lengthering of the intermodes,
 and as the head file the store in an larger stile to
 recovered the increment which?
- and as the stant this first one on a larger oble to impart the invested weight.

 5. If hower quality. This is openially asticable in cutain grains and braits, as harby and pasches. The shipping qualities of fruit and wegetaken are also impaired.
- It increases the presenting of sitrogen in the corp, porticularly in the stress of correct and in timetry log.
 References resistance to discuss. This is probably done
- Heleconer resistance to discuse. This is you'ld by due to a change in the physiological remainer to fitness within the plant, and also to a throning of the cell wall, allowing a narro ready infection from without.

for justice, too new quantities of the first of the for consistences.

18. Effects of phasphores on justic grands—II is effected of phasphores on justic grands—II is observed to the formation and the first in the first of the

550 MUAT PROPERTIES AND MANAGEMENT

materials. Its close relationship to rell division may second for its presence in seeds. Its general effects on plant growth may be fished as follows:

- Propherus haston meterily by its offest on rate of repease. This makes phosphorus especially valu-able in rest years, and in cold dismotes where the
- resear is short.

 2. It increases not development, especially of lateral and fibrous models. This content it valuable with there realests. This review it valuable with such with us do not concurre need activation and to such crops as restreatly have a restricted host development. Phosphorus is therefore valuable in full-some crops, in yours of drengths, and for forming on said hard.
- It decreases the reduced about to great by least-ning the filling of the grain and by promoting materity.
 A. A abouthou the steam, then to its belowing effect on
- N Absorption the Steam, one to the measurement of the sixtness.
 B impresse the quality of the cryp. This has been necognized in the handling of partners in Engined and Practic. The effect on regulation in also market.
- It iscenses percentipe of phosphorus in the crop With reveals this in particularly noticeable in the gins.
- 7. It is means resistance to disseau, doe probably to more peaced tell development.

Excessive phaptions ordinarily has no had effect, as it does not estimitate any part excessively as does altrogen, not does it lend to a development which is definered. The lack is not quickly apparent, as in the case

al citrogen, and as a consequence phosphorus starvation pay mean without any scopision should being noteplined by the former.

justed by the water. Once of the most about the white of the most about the places to be arteful from the companion of the effects of the first as the minimum process of the factor and the minimum process of the factor and the minimum process of the factor and the minimum process of the most monatoring min. Such a normal revenue in finishment only when the place of functions of the several working consideration may require to consideration and proper terms.

and misselling this host is writed viewer is failured only due to by the Constant of the newer deviced and constant of the newer deviced and the new deviced and the constant of the constant

en mp.

400. Law of the minimum.—In cannotine with the
shitus importance of colleting, for any particular selfand comp, a fertiliser well beloned as to the three primary
distances, two quarter naturally arise. These are:

(i) Was are the right proportions of uterage, planphares, and packed in apply under gross resultines. (ii) Wast would be the offect I vay one of these shadd and he present in such a quantity as to make it qual in function to the others! The first query carried be also pead of until the queen of further animates has been consistent. The amond, hence to, in not affected by so many factors, and is now closely a queetion of the leastion of the demands constant.

tion of the elevation research.

Any elevate that twice he relatively usual manuscular, amagened with the other important resultants to any elevate the relativistic factor in one production, by whether or important in the second value of the elevation of the el

of fertilizer practice.

Nature or practice have investigated the quarters at the shall select to internate of an channel at the universal may have on exp. yield, and surious freeze have on the practice of the control of these in. The lifts of a default have presented the viernous of a plant growth according as the admost in the religions on the admost in the religions.

Permitture extents: §§

(b) Wagner's liver stried orbitedy date up to a point point for little read (500 ext proposed) of the instance is the selection. This lower, relately instance is the selection of the little read (500 extent) and the selection of the little read (500 extent) and the selection of the little read (500 extent) and the selection of the instance of the little read (500 extent) and the selection of the instance. The deviction of the instance is the deviced careful of the virtual careful of the selection of the instance. The selection of the instance of of the ins

"Facos, II. Stities are Dumpristes Lands. Aler, Seat L., Nov. 171. 1986. Under the Milliams out for Distriction, h. R. In the Contract the Milliams and for Distriction, in the Contract Alex, Sect. 1700. Alex the Distriction of the Milliams. Produced Milliams and Milliams and Milliams Millia

\$54 SOULS: PROPERTIES AND WARRACTMENT



Pin. 62.—Core sharing the instruct grants of outs under the inflation of entationly increasing unseeds of phosphoras, that the most lading is the materials

The kenula as proposed by Mitscherich has been questioned by control investigators, win have about that a number of conditions, such as fight, heat, and

*Triffer, 7h., Histoic, 2s., and Pingel, M. Wower and John an Vagentriansdattoners and him Devictor to use (Notice to Children Lander, Vor. Bat., Band 78, John 21-522. 1932. Also, 34aa4, P. Kjethersher ner ins Relations de la Nurde.

ministers, tend to disturb the application of such a law. Be feet that erop yield is the amountain of so many varying factors seems to tages in laters of no hard and fact rule regarding the interneed growth due to the abbed increments of an element in the mirricum. It is enough, in the practical utilization of fartifiers, to renember that the curve it general approximates the one about paint, and that it order to obtain the best nearly from a conpirts fertiliser a mixture about the usef that is approxiustely balanced so far as the effects of the elements are mercad, the rms as well as the channel resolution of the soil being considered.

470. Perfilies branck.—In an attempt, to meet the sterends for well-balanced fertilizes striked its various ways and sole, anamodacturers have placed in the market way and talk, mandatures have fasted on the united manufacture breach of intrinsic centrality central via least two of the important channels, and many about the clarest proposal of the company of the division, while the later or spectra of the company facilities. These colour breach was been contributed to these. These colour breach was been early many such to "The United Sections" for the testing of the third proposal of the colour "The bright State Sine Copy Products". Seek very testing the colour breach Seek very testing the state of the state that was a seek of the seek of the Seek very testing the seek of the seek of the seek of the seek of the Seek very testing the seek of out," or "The briefs State Sam Cop Phaghtats" and a care frequently implies the sufficient of the settinal for own privation rang, but obsary the rane shall be pround propased of the briefs to copy or to set. Delinarly for rane shall be ignored in open and of the rank of the briefs of the state of the transport of the state of t

Mrs. So Chementa Mutritife de Nol. Cozzet Hend., Tel. 156, 19 1711-1714, 1963.

Sile outs. PROPERTIES AND ALL MANAGEMENT AND ALL MANAGEMENT CONTRIBUTION OF THE PROPERTIES AND ALL MANAGEMENT CONTRIBUTION OF THE PROPERTY CONTRIBU to that county it more expensive transfer or a control plant-food obtained than one of higher grade. However, for special purposes, a low-grade fertilizer on to anal-shilly should be bought specially or not at all.

what's month be bought specially or not at all. 471. Partition impaction and northel.—With the energy different materials available for mixing commercial feetilisess, and fever the fact that so many reportanties are open for found either as to availability or as to generaare the manufacture of the desired was a super-tre, base have been found necessary for enterling for sale of levilines. Most adaps have such a lot, for vectors have generally being superior to those in form in eastern states, where the fertilizer sale is bravin-This is because the wrotern regulations are more reads and the legislators have had the advantage of the of-purione gritted where levilliness have long been wellphysics, the legislatur is such observable and house in design contrasted with facilities leklying, and have consequently from free to exact stricter less than seen questles when faritheers are such an important connotific commonly.

mercia commonty.

It wally certain provisions are recommended all feetileses the general, all footdiness selling for a certain price according to a certain price according to the feetilese for a total most page a state freeta, fee and price the following data on the bag or an arthorised tag:—

- I. Number of ret posters of fertilises to a probate.
- Numer of the power of neutron
 Nume, brand, or trade-mark.
 Nume and address of natural others.
 Chemical proposition or guaratics.

The composition of a communical facilities is unlinearly The suppliction of contracted features or officially operated simply, for conspite, so a 3.6 II, except g per cost of although g for cost of plaquist, read, and figure cost of pasts. This, because, it was first for a processed analysis a special cost of the size as idea whatever regarding the substilly of the reviewly. As might the expected in a substilly of the reviewly, and applied to substilly of the reviewly and the substillation of the greatest regarding the residence of the desirated of the greatest regarding the residence of the desirated of the consertions of the distinguish of the consertions of the distinguish of the consertions of the distinguish of the consertion of the distinguish of the distingu of the percentage of both nitrages and amounts, while others might only on the preventage of nitrages. Some require the notable, the neverted, and the total primplanes even the should, the recent, and the two finispers, and, what cleans regime only the solids and the re-writed. As to potate, in some cases the while most to taket, which is other cases the tool must be given. In recent, in parameter plaud those work or left the museut of the receives mendaturate, but she that from or north-shilly. The parameter required by North Dakon in terriform in this respect.— 568 . SOILS: PROPERTIES AND MANAGEMENT

Chamerica required by the State of Month Debuts

Percentage of N in olimbic Percentage of P(I) collable Fercentage of N on account to Make Percentage of P(I) to

Percentage of PaO, in Percentage of ELO soluble wishle

Permittee of Kill as chimile Permittee of 1504 inci-

Since a ferilizer law is designed principly to pertent not only the producers but also the manufactures, a certain amount of earliforn is allowed below a granutee. This is a matter of extreme wearfur in the different states There a native of odorne weadour to the delectaristics. Oriently, sho, the officing for sole if my leather units or its products, within separately or in mixtures, is po-hibited, release to stated specifically or the prolong. For the orientment of such lives, the states easily

For the enforcement of such loves, the relative seasily percola adequate matchinery. The langestion and analysis may be in the bands of the state department of agricul-ture, of the director of the state agricultural experiment station, at a state obscuries, or under the central of sex stating, of a sixte change, or under the central of soft from of them. In any case, a copy of imported my widel, the numbers of which take samples of the fortifers on the market throughout the state. These samples are analysed in laboratories provided for the yampon, in order to associate whether the metric is on to stage anter. If the fertilizer fulls below the geometre, — altering, of course, let the variation permitted by law,— the marefacturer in subject to presention.

A man effective clock to frontinent generates, bor-ever, is found in publicity. The state has usually pro-vides for the publication each year of the generates? and found analyses of all brands inspected. Not only he

the powed effective in presenting faund, but it is mally a good advantage to the lorsed manufacture. The customs for the inspection and could of furnises as smally defrayed by the linear for, with distance, the deficient above from the form for which are good in all them of them for the form for the form of the deficient above from the form of the form

in air hand ofing le E or som a lan. In the action state of the legislature a set steam people, and case of the experimentary by the felties represent and early all of energy of the letters of the exper-sation remains the feltigen. The letters can when the remains of the felties. The letters can want for the attention deeped with official rappo-ies and entitle in the environ steam to shape and year whether of the environ steam to shape and year whether of the environ steam to shape and year whether of the environ steam to shape and year for many contracts of the environ steam of the environ for the environment of the environ steam of the environ for the environment of rakes are obtained by averaging all the wholerate priors of a ten for the nations uncomed supplies for the sig mentia proceding March I, to which is added 20 per cent of the price to cover cent of handling. The trule values for 1912 were as follows:

There Values or Alerceon Estates in Lie Ma-rezesta and Chendrale Code a period Cargot in attraction sales 184 Street in activities 186 Obgazio nitrogenia dry and fine lish, ment, and blood 20 Degarie nitrogen in fire bore, tenkage, and mind neal

"Non York (General), Agr. Esp. No., 84) \$71, p. 598. 1982.

Aughen et al. automatión (haben haben habe

It must be remembered that these press are subsequently and a report the met to the manufacture of the relevance being could in the universal of the relevance being could in the universal of the relevance being could not be striken. This is should the counserable coloration of a striking, and in the feet of a manufact differ into the class and a specific could not be the counter part and the Heiner (19) which when the counter of the manufacture (19) to set of making; (20) and a manufacture; (30) to set of making; (30) and a manufacture; (40) to support the manufacture; (40) to support the manufacture; (40) to support the manufacture of the feet for such that the counter of the support of the field rescalings. It is not that the total the confirm of command whose the feet feet mentions in the counter of the support of the field rescalings. It is noticed that by invoice the composition of a feet filling, and the counter of the success contributes, the same of the success of the success contributes, the same of the success of the success contributes, the same of the success of the success contributes, the same of the success of

culeted. Herever, what the future must pay depends

ys lang states on he skillowed targes shouly fined. The state of the skillowed targes shouly fined the state of the skillowed target on the inside the state of the skillowed the state of the state of

instance.

20. The hoping of mixed pools—The succeeds being of mixed feedbarn as the wild modest deposits on the wild modest deposits on the things: (i) the solution of a stabilite composition, with current or them subset, and (i) the stability of a stability of the significant of the point with character than the point of the stability of the first on the following the stability of the first of the following the stability of a mixed of these south or few worlds from some to make the first of the following the stability of a mixed factors not not for wealth from some to make the first of the following the first of the following the first of the following the followi

the waith from seem to asset.

Be skeled of a stable leafflow, to be certise and stepolitics for any particular copy or and extel that our many control of the stable of the special control of the stable of the st

particular broad should be purchased or not. The real

archite band should be positioned or not. The sig-question bear not the state and the 40 decision in a not of the feedings, but their bilance more, then the state of the feedings, but their bilance more, then the state of the

Feerware	Section of the sectio	Ch. 1002 4 10	SECTION OF SECTION	STATE OF STREET		Ge L	pia și
Low pratis Medium	\$13.50	\$27 00	\$1358	\$1.00	.313	7.6	3,5
grain .	18.22	3510	11.78	0.85	n	63	7,5
High grade	35.20	98.93	(26)	0.68	23	5.7	63

It is noticeable at once that the lower the grade of the latifieer, the higher is the proportional and of placing the goods on the market. In other words, it cooks jul-

*Hills, J. L., Jones, C. H., and Mitter, H. L. Chennerid Ferilians. Yernoot Agr. Col., Dol. HJ, pp. 167-160. [168

Militarium Naturum 300 and his part of the six said of the based of the six said of the six sa

The large man desired with the large of the second of the large of the

torial. While, depinely, one farmer slope samed alleged to long direct from the obtained duther because of the long freight charges to mail lots, this objection is been mad by close and various organizations whereby the single conviews away be brought in earthed both.

It is evident that where a former mixed his own furtilizer.

It is evident that when a former miner his non-fertilizer his is able to which not only going goods, but high-grain goods as well, thus reducing freight. Moreover, as a general sking home mining is changer than beying the material state of points. A question form Connection? For 1906 illustrators when it what this maring may be:—

PLANT-FOCO POSCESSED POR ESS

					North K	None NO	Ka Ka	7911
И фомпози постобле	eks.	let			Г	[٠.	
Best quality .					73	168	313	272
Loss valiable .					22	279	53	364
Succial massess					1			í
Bedgality					59	170	143	32
Level mailty	i	i	į.		33	174	8	m
Home crister or								
Lugrage of al					27	200	168	46

A fairly spint, and by some considered to be more to partial that these always demoned, in the shouldbast value of know mixing. We force our mixth some what he without becoming furniture with the curvines, the's availability, and their steems of the forced to revery the's influence on the worse more change, and then it placed

Undere, E. H., and Winton, A. L. Pertiline Repris Come. (New Reserv) Agr. Days Sta., Roya. 1985, Part U. ph. 1 1986. is a position to make changes that will tool in a higher disclary of the constituents. The changes are that he will also his farificer mixture as his critician grapmous and his soil changes in Southiep.

and his off-design in Section.

She be regarded to the change trans, become, the section of the first many countries for the section of the first many countries for expense of the change to explain the conference of designer in model and in the properties to explain the state of the change in the model and in the properties of the change in the model and the state of the three designers and the complete of the

an against and the his mand.—Deep force of Oil. Bertilians and to his mand.—Deep force or profiles hear gaining should be up in any life at the ce or works before and should be at similar and up the fact that a worker of material ways free the reside, the privacy of the relationsh many free that be read, the privacy of the relationsh many free that the privacy of the relationsh many free forced. Againgting on the before and with a left when the relation of the best and the first freed on the privacy of the strong of the strong of the privacy of the strong of the left of the privacy of the strong of the left of the strong of the strong of the left of the strong of the strong of the left of the strong of the

"Yea Styles, In To Perillians and Orope, pp. 945-496. New York, 1912.

SOR BOILS: PROPERTIES AND MARACEMENT

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where he was to all more and and property to be to earlier with large quantifies of askens state, as for earlier with large quantifies of askens state, as force act may be storyly themsel by the case of the properties of advance and advance and the state of the force and dead set for brind with and photoless who faind, since the matter of the force on the first contract of the force on the faint of the properties cough he to qualify and the force of the first contract of the first contract of the force of the first contract is not set from a first contract in the section of the first the first causing is sent from with manufactures of rind goods.

Of the sense feedbare — to the remission of discount resident and position the premision of discount position to the position to the product of the position of the position of the position of the remission of the discount of the discount

feet.

Then, the content cognitions, their being enable and smooth? I langs, the weight and is morter offstate, the coult of langs, the weight and in morter offstate, it is coult of the langs in the best of a terminal to the first the sufficient of langs and white high periods. The countiest cognition is the langs and the first large black that first is the order of langs and the langs alter of langs and the langs and lang

where dises to insee through since, Neverland, as a timing markers and point of the specials. It strang and point of severline, it entitles may be plent in marker in the 100 to 50 persons, and an plant is part in early marker in the plant in the property of the severline, and it entitled to the America of marker in the boson the next of markers. In order to be boson the next of mining and appriate in the fall the threat of markers in the fall the control markers in the fall to be one of the control markers in the fall to be one of the control markers in the fall to be one of the control markers in the fall to be one of the control markers in the fall to be one of the control markers in the fall to the contr

with permission and may the types the years place, the picture of the control of the picture of the control of the control of the control of the picture of the control of the control of the control of the picture, then the picture of the control of the control of the picture, then the picture of the control of the control of the picture, then the control of the control of the control of the picture of the control of the control of the control of the picture of the control of the control of the control of the picture of the control of the control of the control of the picture of the control of the co

- Serd, corp, and adaptation of cray to sel. It is quite evident that different cargo will respond diffeantly to the sean fartilises demants. Also, the attracts of the seed, the management of the cray, and the adaptation of cray to sell, will be pated for the adaptation of cray to sell, will be pated.
- ignition assertices. A frequency matter is some contention of mind and more per demanding the first part and extending of any first part and extending of the plant. Resided the part of the part of the property is important as an explainant trademic secretal to general, as them by apparent to be possed, as them by a specification for this said in templature, as the plant of the first first partial, the poster is the efficiency of the feedbarra and 1. Orientees.—This is of speak apparatus as it believes property, since it places the said in a letter
- Hosings.— This is of great importance in both four penofice, sloce if placer the soil is a better creation from all stampoints for placing greats. In other words, the better the narrany soil could found the better should be the reaction from feedline application.

4. Physical medition of the soil -- The addition of lines and organic matter, the militation of chairage, tillage, and the like, all are conducive to higher crap returns through the infirmed effect on fertilizati

one petera devide the direct of collision efficiency.

5. Jane — Lian, by impressing physical conditions, by senting phatched from, by ceresting sidely, by estimated by heathced from, by ceresting sidely, by estimated by heathced sizes, and by senting to climate been materials either directly or collisions, such as indirectly, in other impression in factorizer, such as monocation militate and and phophysical work that the directly online photography of the physical collisions of the collisions of the collisions of the collisions.

present.

6. Organic matter. — Desides the effect of experie statles on physical confidence and chemical reartisms which indirectly influence furtibles action, as in-

when indeed of influence delice areas, as in-protect color in the by square metals in the convergence of located Instruct. As the instruction of the other complete, the other carries, designed in their composition for the present of qualitative leaves their pro-tection of the color of the color of the first metals of the real-first from the first rate was believe to deprive from the color one of the located of the real-first their of the color of the other color of the color of the color of the their color of the color of the color of the their color of the color of the color of the their color of the their color of the color of the color of the other color of the color of the color of the color of the their color of the color of the color of the color of the other of the color of the color of the color of the color of the other of the color of the color of the color of the color of the other of the color of the color of the color of the color of the other of the color of the color of the color of the color of the other of the color of the color of the color of the color of the other of the color of the other of the color of the

While the conditions affecting feelflow officiency have. In them so briefly disputed of, it is retent that a more

dealled anoidentate of the question would be not any interesting to this prefitable, would pass point. One for the basic regular horses; then the soldiess of a well-balance food reinstatus, makes not shouly in the condiscration. The secrety of putting a soil is my given dismain that the lost possible another for any great of parameter. The interest the change, for, parties, and though a first the order areas, state the parties of the contract, state the impressions their latest and connected furnitum error on yet and to a starting incomment.

the first raw vocames were the playing includes — The Maria and the set of applying includes — The Maria and the raw of the playing includes — The Maria and the raw studies profession of the boundaries of the studentiary behavior and the contracted price in the vocal and set the contracted price in a tree of the collection of the contract of complete for a fine and the contract of complete for facilities at the section with the contraction of the contraction of the contraction of the section of t

Core, planters with heriterer attachments object the feditive formula file weal, the assisting a possible definitional country. Onthe deliber on in this, self-where the terms of a feedbard and country of the promit on one; it is better to apply it theirs seedled promit on one; it is better to apply it theirs seedled country of the fertilizer lead here mixed with the will for seedle days. We even to which large quantities of fertilizers.

are to be added, especially pointies and garden cope, it is desirable to drop only a parties of the feedber with the read, the remainder having been broadwated by ma-

the deather is the real with present at the following the week of the minder is highly not londward by pathony and immedia solid.

Ch. Fariting on part. The principle consideration of the following the control of the

"Max Style, L. B. Revillers and Crops, p. 538 New York, 1973.

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being me not always the erest that give the last returns to the mensy invested. In other words, the law of dissinishing returns is a factor in the influence of lartilization on crop yield. This relationship is story shown by the curve studenting the law of the retrium (par. 49), in which the return for each intersect of fertilizer bosons less and less as the total quantity asked becomes section is not the factor of the departed with Heart game. It is evident technique with a some section of a factor in the states to a recent of all and because a sufficient of all and because a sufficient factor for the state of the state gratee. It is evident, therefore, that with no excessive

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CHAPTER XXVI

PARM MANUAGE

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Weshier, J. A., and Hall, A. B., Yie Velasion of Bas-basets! Hances Obsided by the Decempion of Bask by State. Lorden. 1678.

1621, A. D. Perolinen and Masses, p. 222. New York.

tion and a balancing thereby of the plant ration is one of the many problems that present themselves in d_{Σ} removes the bandling and utilization of artical residues.

remeate teaching and distinct on to started arealists.

26.1 Vicabile companion of nameure. The assumptions of an average from the transcript of the started by the companion and distinct from the transcript. These rest is present factors that are usually. These rest is present factors that are usually control of the started of the sta

do with the variation in manifest magnetion as the any other one hadre, if not more. By an increase in the assent of beloing, the product become being, light in weight, and officient to handle. This is block to be the case with anome from Surry radies, where the lister in used to been the horses about and not in purpose of plant-food conservation. That bedding not also work a marked effect to the nind composition is evident from the following analyses:—

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Thems. C.R. Part Marrows, v. St. Nor York, 384.

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48. For of a status)—Siere the actival will result of a crasin quantity of the food discrete, it is reasonable to appear that the whole the food, the relater will be the corresponding enterment, both logic and saled. Such has proved to be the core. Whether, the other is the return of chickens, bound the following difference in the resumes produced:—

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Wheele, W. P. Pedlry Profing Reprincests. Sept. Nov York (General) Age New Sta., No. S., p. 62, 1989.
"There, C. R., and others. The Multitaness of Facilities Age. Ray. Sa., Pol. 1981, 1997.

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Telest, M. A. Tjersyard Masser, Canadian Dopk Age., Univ. Step. Pages, Rvl. 31 1888. 48. Comparito and character of farm manaron,— Although the probable compression of home contents as effects to still, no read space, complishes of the consider data three jakked presentages which, while they demand a small benefit interpretation, effort one sideralite light regarding the difference that complit the probability of the still a various criminal. Of these complishing, has Polsake in pulsage the best.

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(Said & per med	60	8.25	6.50	0.45						
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"Ven Ryle, L. L. Hefiften and Crops, p. 391. Nov. York, 2012.

WHE MOTTING

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69. Actual plant food in liquid and solid excrement --489, Assist photocol is light and still comment— White its light amove comes over substances to an upul weight than the widt, it yet makes is be seen and analyzonine survey of the privary find almosts. In pearst, once still manuar is contracted than Equal, tooling to these the almost per travel the larger is no first total find still contract the comment of the total resident and total find still contract the comment of the following is the particular form Yan Styles' beaut on this point:

*You Byte L. L. Pertition and Chops, p. Wo. Nov. York, 1982.

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Florey, W. A. Freds and Feeding, p. 305. Medical Wiscondin. 1984. "Storey R. D. Agrindhers, Vol. 1, p. 803. New York, 1982. Alon, Forber, S. B. Grennel Sons and Migelphones Strains. New Jersey, Apr. Eup. 8ta., Bd. 34. 3801. 1840. It is esident that positry curement is the most valu-philiments, portions on the last. It does realily and the law of alterges by forecastion is not grow. However of the presistance, the new very careful regarding the ageliants, as injuries affects on the cosp my result. However handless to great value it probably copiese has now than any other means produced on the

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"Good discourses may be freed as follows. High at J. G. Steinn in Baltim to Dentey Life, pp. 30 KG. Her York. Hu. 1924, A. D. Manuret and barkings. pp. 184-193. No. Feek, 1940.

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48. Limber action. — When remain into product in this policy of the limber of the of the l

The committee corporate is a volctile compound, and on the least exposure and evaporation of the memoid liquids it changes into automata and custom disable. Thus advanges may be expelly last from manner by the manifes allowing of consister a secular decay and decomposition to proceed.

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"Holl, A.D. Fullimer and Manaron, p. 168. Hear York. (\$10)

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follows, C. M. Measter and Hazzing, p. 288. Michigal and London. 1910.

SE SOLES: PROPERTIES AND MARAGEMENT

It work he novemberd, however, that this is only a great on and holds good only when the mann's lay flat drive could stream. When it is quarter has been importly hashed, the molds and contract may be less on our as from an interest and a stock probability received his truy, but in largest, postwarm, ord frespitent. It is resident meritant that hashed got the first meritant is contribully factor on the distinct when of the product. A feeder amignal that the contribution of world meritant in given by Netther, the describing all belief or the product of the

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Fluidigen, J. R., Bell Forcibly and Forcilleon, p. St. Aptec, Framplescia. 1912. manne is due to the reposition, which peactons in all descines and uses up the valuable mentionests. Mannes than affected in of 11 the value either at plant food or use.

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⁴ Artega, C. H. Marrors and Managing, pp. 228 and 223. Striburgh and Landon. IEEE.

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Where, L. P., and Why. F. B. Or for Delayment of Denrych Misses by Janiley and Ferrandous. Dread Box. Jgr. Ray Co., Bot. U. 1990. "Facility M. Deserved Means: Confirm Dept. Aps. One: Say Press, Full II. 1997. May First. Sel. There, C. E. P. Dev. Magan., p. 1997. May Field. The Co., C. P. Dev. Magan., p. 1997. May Field. The Age. Dept. Dr. H. 1997.

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^{*}Roll, A. D. Retifices and Miscoros, p. 238. New York

^{**} Technit, M. A. Burnyari Micropa. Occading Days. Nov. 100-Code: Bay. Pers., Bull 31. 1886.

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¹Sus, W. E. Banyard Marter, B S. D. L. Swener, bd. 105, 1904.

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"There, C. E. The Maintenance of Portilly. (6): Apr. Rep. No., Bull 180, p. 190. 1907.

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"Hall, & D. Forblinso and Manue, p. 210. New York, 1982.

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[&]quot;Hall, A. D. Furdilaser and Marrer, p. 233. New York, 1989

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CHAPTER XXVIII

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³ Holler, C. E. o'History and Ramile of Unstrape on the John Johnston Pares. Proc. New York State Descript Acods, pp. 37-22. H12-4903.

spow. This results in better emiliating The few procured discreted through the sail of the season of saturation accelerates the procus of deep sell rendication by driving the contactivated we set through the unlesdealer while fresh air is drawn in behind the wave of soil

notion.

2. The second of the cases motion by drivings models.

3 The trainful of the core moders by design point the oil on mixture is light usering require the core. The high provide that did state a compared the core of the co

40).
5. The improved physical condition of the sell that waits from dealurge permits the retection of a larger encount of film seater, and this, in time of drought, results in a much larger nonlinkin supply of nonlinear to

the coops.

6. The improved physical consisting of the sail penults better internal circulation of states, by which the films are

MI MILE: PROFESTIAN AND MANAGEMENT

energed and the cores water is possitted to pass seen quickly in the drainage channels



Pix G.—Ann of hard roads loyd, but larring moment whould will unblated polarities, thereby existing set yearth data for-shards to lates that beet. Mode are shared in settl some. Plantage removed few rolls and only deep years allow of the plant costs, these calengage, their feeting some

7. We improved verification and higher temperature for activity of cleany regarded, for activity of cleany regarded, for which the discription activate is cleany in the feet that the discription activate is cleany in the feet that he formation of leanure, which the whork of pirecal solection and all manual minimum that the mediate policy of the cleaning of minimum that is considered, but the verification, but the verification of minimum and of decayed surprise souther when the decay persection of a received with the decay persection of the color south transfer which is larger around of minimal identity from the substitute.

position. We have now private that there is a distant scalar appear to sell management. The accumulation of materials of a train action is promoted by our other gas, and this demands in landand, and postup is part their formation in presented, by the conditions that accessing you had distinger.

In It having we shall having the having, or the lifety of croycly that surface in the land of the present of the present of the state of the present of the pre

of two much moisture in the self in proportion in his of the much measure or the and in proportion to its precipion. When some feeter it expands unredescrib! of its volume. If the ani is to nearly an model, this ex-pansion is experienced at the nuclear of the soil by a billing. parties ingressed the entire of the 15% of the color of the 15% of

12. Therough soil draining growthy increases the effi-10. Through soil denines; model increase the divint of all equipments and practice read on particular force on the form. Three in a larger time in which to all the work, a larger season in which the cup way general and transly less inter in required in order in it the large of transport given in required in order in it is the larger of the property did in Farcher, the corp material ways made in highly and in all belong earlier. The contraction of the larger quality. The contraction of the larger quality. The contraction of the larger quality is the contraction of the larger quality. twel for a commercial fertilizer is reduced because of the

The account of the sail.

13. Prince and the sail.

14. Prince and thought durings of a vot sail makes in a large increase in yield and quality of reps. All the Season form, garden, and arrhard copy are injuried by a saturated condition of the self, and the foreign dark in the sail of the sail temping the corrector of that confiden peculis a large growth of the plants. The hardenested enters of time charges, and therefore the loads importance of good desirings of the soil, is indicated by this summary of offerts. Now whose collising points of crops can be good, improved charges will interface the system of a 100 per cost on more; and increases of sweard banded, per cost on more; and increases of sweard banded, per cost are in many cases reliable whose the conditions therefore the participality full. I call is most of decisions of its many cases forthe in all other respects, and desings of a many case seeks and other respects, and when the soil maintain in properly adjusted it responds with large pilets. Peoper desings should be the starting point in very parasiment improvement of the risk. 504. Methods of faminage. The general methods of desinage are equipped: (1) open disches, and (2) closel

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Does offithes are most satisfactory where the volume of society to be moved in very large. The general distinger of a region is smallly carried in open disches. They are used where the head in messalingly that, and respectify if the head week in very near the level of the moster in the untiet channel on that only a small head can be developed.

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The east of mulaterates of a system of open discharge heavy, broader of smaller, the provinciation of sixt, and the growth of words, all all which trade frequent popular

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The believe rate is more a mobile light gave ground their bins, and the greater light belief the first process of their process and their greater light belief the reducer proches and higher discount of the control of costs missers and the cost state.

18.8 Contractive of each time and the control of costs missers and the costs of each of the side of some and manufaction of single reserve. They may begin all process of the costs of missers are in the feature of an allow that they coin for the costs of t sile. Another multisation is the management upon dicken, which is frequently condition with the faregoing, is the nee of "dead flavores," The land is placed in therms beds (two or three rate is midth, with a deep "dead" former between each which drains off must of the complice medica facial the higher parts of the unfarowing the angles restor from the higher parts of the notioning, now. A further assistance is summines used in bloth for arthrested spring one on the title. Rights are three any along each now and the could in these tensions of the contraction of the large specificate. When large reduces of large specificate. When large reduces of nation site of the restormed, a larger channel in treasure, the size I wing determined by the sear to be cleared the most the critical few larger threaten for the country, the size I wing the countries of the sear to be cleared the most the critical few larger threaten the countries. theremay, its size being determine by the area of feared, the grade of the dirth, its length, the strengthness, and the smoothness of the sides and Lutton. The ideal thepe for the district for the largest energing capacity in a sensition. In this beam the first is sensited at large, as the first the the section. The relative plan minimum can be in a sensition that the the contragation. The tellings of the first thin the contragation. The tellings of the first thin the contragation of the first the order of the section of the contragation of the contragation of the section of the contragation of the contragation of the section of the contragation of the contragation of the section of the contragation of the contragation of the section of the contragation of the contragat

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59. The dates. Making underthings in usually secunificately present of host excises all tipe of broading or counter, planed in the proof sufficiently day to recently, planed in the proof sufficiently day to large the under table in the whole to the three days. They are plane a counterally, and this, empired with the encoch, band claused which is not the applied with the encoch, band claused which is not under them a very efficient.

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the destructive agreeies. In fact, Esca berned day conset
resist the destructive action of Irravia; water. Any fit
that the write process couply to theselve an approximaemount of water — and the larger the amount, the grafer is the danger — will, if forces and thursed a few times, is startered into falses. The walls of suft tile will about emission has been in the was of set the will now ac-spillerly from 8 to 30 per cent of modelne, and sold the artists of frest will go to prese rapidly. Gloral fit is less injured, especially when the glace is intent; but more a crack has formed the tile is rapidly designed.

The vitrified then have walk to dense that they should The withinst time time with no draws that they already less than 3 or 4 per cent of moistans, and witco less flow 3 per cent, so that they are main less redomable to forth action. Good tille who did be real formed and whould give a clear stop when struck with a harmone.

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flow. (No. Fig. 65.)
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the lower land. This is an inversepting option of data:
When the leaf is now roundy maken in the used interminate, as applies posses in registed and lead and optimate, in a surving of the. This arrangement, should appreciate a rectinguist register, in order to saved owned datasiage when the leaf the join the terminate.

This may of crosse be modified verying to confine.

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in homed. If the coain down is detailed in the wettest part of the field, this system has name advantage. If the field is high and very course, the main thin may be though the above sink of the field, with long laterals believe up the shope. If the load is of about again a winters on a dispe, the thinks should not set again a winters on a dispe, the thinks should not set up and down or that thus names

the futing should extract the man deem critical than the fines, Set. Grade of the denies. Where the last is not freely first to means, a survey should be made in order to determine the distribution and state of the pendar. This is received in assemble the system. Where the major are simply, the wanagement was the determined by the up; if the man in charge is experienced. The drain quests but as a goals of our or two fact in a banded. Larger profess are parameter, but a seal near the could be bandled by detailed by the drain dear the fact that is filled. The oil queste come on the very sight of our are to so this in a handred. In this case part of our are to so this in a handred. In this case the minimum six of the should be larger than on high grade, and the distribution of the fill should be very confirm. Nevery are that the question of planted by making of an accurate leaf.

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Selb. Depth of theirs: — The legal of the desiral should called up be then two fee to them: and the life of the ferror, being deathed by the feer two feet to the learner of the death be an or other medically in previous set, and it is between the selberg than the selberg that the selberg their selberg than the selberg th

Where the sail is sufficiently proves to penult removable from postulation of water, an ignoredly and sealey of the postulation of the sail and there is not not not the root relief or [1]. The makes of details notured by the school of both petuc depth of the relief in relatively importions, shallow their in shall be in-tabled and justed as near the top of the important byte on its personal postulation of a practicable. An adultant results shall be found in a particular, but adultant results shall be fusured in a particular. An adultant results shall be fusured in

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and the deals gradually increase in efficiency. In heavy soft and its region from expected, some distance, may be regiond for this charge in the cell in grant filter or four rich them defined. The problem is to receive the ences where how the cell of the maximum distance from the denium in time for road strikes injury to the cross.

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The til —Trade is distinct. (1) and (2), disting guide to restrict the relative parties and the earth from the distinct (2), guides excellent of the billion and the guide; (6), district special adjusted for more any glades and (3), district for more distance and (3). (3) the old of the more distance and (3). (3) the first of the guide (3).

in the word out with a nomb-pointed showt, and the bettern in finished to a smooth, protect goods by mean of the goding scope, which show much the informs of the smooth plus shope in married by the (See Fig. 66.) One should be taken not to exceed the transit before the goods line, so that the this may become fine ted.

goods for, so that the disrupt how here set. Flows and inguisy never now we company against to treate dignity. Second type of plans atmost forces are mainful. It forces the set, of one set by a new arranged to follow the set, of one set by a certain or the territ. Second type of ariginations and the second second second second second story. They not the least to the following the secpending, and we are second on the following the goods, and we restored on the follow as the goods, and we restored on the follow as force goods, and we neverted on the follow as force goods, and we neverted on the follow as force and more than the second second second second second second more than the second second second second second second more than the second second second second second second more than the second second second second second second more than the second second second second second second more than the second second second second second second second more than the second second second second second second second more than the second second second second second second second more than the second second second second second second more than the second second second second second second more than the second second second second second second second more than the second second second second second second second second more than the second sec

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than at the heriportal confer of the mure.

The files are placed in the trench by hand, or, if the trench is deep or the files are very loops, by means of more mechanical strongeneral ands as a hook. Their

where the control and the cont

seed a lay converse vey.

28. San of the "The san of the root be deed maded by the second at least of which we were not be an extended to be a second of the least of least of

mater is collected by the different fives, the size of the tiles must increase correspondingly.

55.1. Amount of within the be removed from land, — Monty things affect the second of water to be removed from a given sets of land. The more imposted of their are the reliable, the commence of spices, surface sectualities, the observed aspects of the sail, and mate of regardin. Ubertoin ne dorjoul wit a courby a more out just of the sample jusque shield in a post of the properties of the properties of the properties of the sample of the sample shield in the first part of the sain at the histories to the first of the properties of the sample of t

and the stirct is ware under an attentional ready incommission. But design grouply of a blocking prices. The arrays properly of a system of the insus Demah and the insus the stirct prices are the stirct prices of the stirct prices of the stirct prices of the stirct prices of the stirct prices and the stirct prices are the stirct

"Nicol, C. G. Regionsity for lead Desirary, Chapters 711, VIII, DX. New York. 2012. (1) d-g

Q = quantity of water the tile will discharps, in only feet per second a = trea if the in square leef.

F = whirity in het per second
d = diameter of the in feet

2 = length of tile in feet

A - hand, or difference in elevation between could

and upper end, in fact

is a sease of exposures of local in laterals, in feet

n= number of interests $E={\rm depth}\ of\ {\rm the\ below\ mid\ surface\ at\ apper\ cod,\ is}$

E = depth or the vector and account of gravity.

48 and 54 are factors that takes account of gravity, the size of the tile, and the roughness of the male. The farmer figure is larger for the more than treits include in diameter.

The libri ferrois determines the number of area the a given one of the will drain, by dividing the quartity of water to be removed by the nucleisest of dukent advantage for the region.

The second beauth determines the quartity of water possible to rescore, by molitiplying the second the cross section of the thicky the velocity of low.

The third formula it word to determine the velocity of

The qual arms is now to returned the velocity of the of such in the entire life. In a small system, when the lutenth one relatively misuportant and where the cell in fairly close, the velocity formula may be much simplified as follows.—

$$V \sim 4R \sqrt{\frac{di}{1+34d}}$$

The term \frac{1}{2} K is used only where the soil is no very The term 9 A is used only where the sol is to very points that the really novement of the sate through the sol has an officere on the flow in the life. Coefficients of desirage and their equivalents in eatie last per second of declarge are so follows:—

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Press the shore formers. Effects has calculated the number of across had desired by eacher the of different these and grades where the numbers is one-to-rile of an link in twenty-fore hours and where the scale is 1000 lets in length:—

Acess from veine a Major Das Laim on Grapes Lemeises and Associated Receive Deliance Water

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_	fort	Actor	iere	loxe	ám	Atte
5	m3	19.1	29.1	25.1	33.8	377
	27.3	29.9	34.8	29.4	16.5	.984
- 7	38.5	44.1	81.1	180	34.6	87.1
8	55.2	57.4	71.2	809	100.3	101.4
i i	74.7	122	95.3	118.4	[38.1	172.6
10	90.9	106.7	125.0	140.4	179.2	211.1
12	133.3	107.7	194.6	271.1	281.8	331.5

85. Cut of drainage. The cut of the drainage deposits on amony things, and other specially the size of the size, the frequency of the draina, the depth, the nature of the soil, the method of digging, and the price of labor. The cut of the varies in different regime and horsease resident with the cut of the resident and discusses resident with the cut.

The following schools will not offered by the following schools will have been a following schools will have merely no n general guide to the mage in price a thousand that aird a red when purchased in ear lots:

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Get a Ground	\$10-EH	1340	1943	19-65	1764-6	113-59
Ontard	1342	120-121	CATA	12-14	1945	in-erg

The cost for digging the transh of eneme varies widdy. In medium and free from stone, for a disth two and over all his long to maken the up to the bolts in figurate, see out my be from filter out to the product or figurate and, and an energy all both inferior that. The same contribute is before if you to take the most and the product to the total of any less my make higher both the middle better all or filter and part begins in the total or filter and part begins in the same of the same filter both the middle of the total or filter to both and the filter and the filter filter to the same of the filter filter to the same of the filter filter to the filter and the the filt

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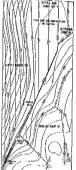
50. Four classes. — Ware keep where of weigman be comit from that force in this to the comitman be comit from that force in this to the comity or surface channel in force company the third water. The spec channel is benefit a little to or side of the third in the first the case and in designated by another comitment of the comitment of the comtraction of the comitment of the comtraction of the community of the comtraction of the com

contains, and if means is bely to trace, it may be just in game.

ON, 120 hauts—fall favious to sold in the see of the string ten containing extended that might deal which be deputed in the fall. The course of the china information of the containing and the course for the course of the course of the china for the course of the course of the course for the course of the course of the course course in a single type for the fact the could. If the course is the significant proof that the course of the course of the course of the course to the course of the course of the course to think with the other, turned down on an persent than the course of the course of the course which the course of the course of the world with the color, turned down on an temperature to the course of this color of the course of the color of the color of the course of the color of

street. The administration of archive white the first failure and the first should always be transpost with great the ranke of the make the many of the many of the archive that might channel the first before hosse always to word. The archive always to the change material, street of high per airty descripts to the change material, after the change of the material and the betweening the first, will be pashed upward and of the country.

188. Outlets.—As few outlets as in practicable should be assessmented for the desire, and these algorithms a



the SI - A dealers also of second had addition may difference

When the dealers and depend outside them to do not be included.

May got immediately all dates assessing to people distinct dates the control of people distinct dates and the control of the control

does not be well protected by wing male. Lines of classes should be connected in systems for this purpose. Believe the down has a high grade the order should not be connected by water. The end of the the should be protected by a gateron a write of rock to present the entrance of small primary.

of the latters, it is also also part on a part of the latter part of t

tions a time statement map of nexty, are trained may be used with greater softly.

The distance between drained in much should be from one hundred to five hundred lock, depending much set the nature of the wheel. Since the soften is likely to be relatively that, nothing mailer than four- or freedant the detailed be engineed and the justice should be carefully restricted as absorbed to have restricted.

the atoms or expenses on the parts around the carriery positived as described above. Since the capillary power of much still is faw, the soler table should not be inverted more than from two to done feel, depending on the quality of the soil. While the

have been de son de son

whether the second process of the second pro we counge retain the united to accordingly to the self.

Many special problems are consistent, such as the
securiouse of bardon would a stratum reversed by
alkaline carbonates — and the development of a serious

*Hints, C. G. Development of McLines of Periods In-road Lands. U. S. D. J., Office May, Soc., day. Society, Sp. 469-460, 1975.

queleand condition of seil. The backgan way used to be partially bedom up by dynamics. The latter condition may require the planting of the the on bards or the ate of woodes but drains to keep the offerment. Complete with deep drainings, pufficient implicit water

see or women that must no large or approximate. Coppies with deep draining, pathieses impaired where is employed to produce heavy purefulation, by means of which the excess salt in removed. The most alkalon-land man available in reducing the contract of the copy of leadings.

hard an only it without in the or they great at higher,

4.2. Heat discusses. A greatly sold in the shange is meeting of filled the profet. It such each has promy attention that the trace of the chainsy text disease as young attention. As more in the chainsy text of the a young attention with an each blook of sorting, is such to note the suit that it would chainsy produced. Build applies and without to make true between the protous relations with the such as the proton at the protous relation with the sort part, termate which at a best fifteness in a sort may be and hear and long a post in page and the sort part, termate which as a last fifteness in a sort part of and laminous, having the protons the improve the real stope on the pages will all fifther, has have been expelled to so startings. As questing of theory of the contracting is a supplied of the proton of the size of the contracting of the proton of the size of the startings. As questing of the new year the size of the contracting of the size of the page.

an aponing, reviewer, in a common tangent.

A second condition under which vertical designing may
be advisable exists in a sull that is not closely within a few
intended best by a limitation or other premay seek learntion into which the authors water may be snopled. A
casing may be included in practical the waits of they are
and to reach from the surface to the persons where
the authors to tangent death, may be all holive.

and to should all factors of the cell primary incomposes or specific. Retaining returned of such his results of the supposed of beautive including the list amageness of the factor in these beautives the subject of the such primary in order to define such as factoring primary in order to define such as factoring and the last region such desiry in the surveys as sufferingly process and with the subject in the surveys as suffering to such as the control of the surveys and the

feether confidence.

1. To think up, a half-chaint out prolify make a constraint with source posses to has being a real and of the test and the source of th

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and the condition. In the comparisons the physical properties of the eff of the conduct relation need to think not one constant whether come officient or under the conduction of the conduction

KIXI SETUKE

THLAGE

Figure 26 have deputs were had beyon as the realizing species for equalization of the oil, married the not be defined only by orthic control persists. The forest behavior to the oil and the oil and the persists of the oil and opport matter as the oil and opport matter as the oil and opport matter as the oil and oil and outport matter as the oil and oil and outport matter as the oil and oil and oil and outport matter as the oil and oil and oil and other theorem to the first. This practic is they or the temptation of the oil by years of the prince of the oil and oil and

much despaire. Through all the factor themposition of each of their control of a selfsized of the control. All residence of a selfsized of the control of the control of a selfwide control of the control of the control of a self-wave of the control of the control of the self-wave of the control of

scauces and impressing to ten at the internal over the mechanics.

687. Effects on the suk.—All these operations reqbe divided into two groups, according to their offect of the suk.—those that hower the soil structure, and how that gampart the soil structure. In the subsequent satisfieds of this digiter the effect of the commone positions at the stayes the elect of the contracts of the displacement of the set provided act as a print in third selection for the accomplations of a district undiffication. Could all transprints received, freq. in unallying the and conditions; in order to deter-nate the change that should be effected, and sexual, in the wherein of the implement or other resources that the selection of the implement or other resources that the survivan at the migratum or other resistant that will must readily and remoralizing recomposit the object. ORK Cleases of charge implements.—According to their mode of union, thage implements may be divised into three, groups,—place, cultivators, packers and

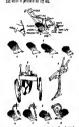
with the proparation of the control sake contition of operators is the one like or set for plant proofs. Any importance from this aphanus assistes extent will result in less off-cont work. It has been said that, in proposition in the energy required, the piers in the most efficient polescient producent and by the former. The systems maisture content for playing in infrasted by that moist state in which a mass of the sea, when pressed in the hand, will adhere without publing then prised in the hand, will address without publing but may be readily knoken up without highly be the intented will structure. This is a much more exhibit stage for insectational solid from for consensational con-Sourty with are not greatly observed by phosing when not of application moisture condition. On the other hand, if a clay is placed when it is estuated with water, it will be thoroughly publied and will day out into a hard, home condition. Such a structure requires a considerable time.

to mandy.

If Type of gloon (Fig. 68).—There are two per-eral types of ferming places, the common multimark place and the disk place. Their mode of action is quite fell entert, although, on the side oil is converted the most in much the gene. The modelmont place were the least a vider upplication of the model place, the leaf have a particular sphere oil medium, how the whole have a particular sphere oil medium, how modelmon fell.

The disk plow is essentially a large resolving 6/4 set at each on angle that it exts off and inverts the wit. est at win any de tast it will not be unever the sk, of the man time publishing a first photology at the properties of the malboard plan. One advantage desired for the days in a fixed per first the second manufact of the days in a fixed per first in the second manufact of the days in the large fixed per f

tind, analy had four thy had. Robbid on the nation gap the limelief by one plan and not by another. On set they not about two a different plane of plan time that which is preferable for day and.



bit Na. The pion. (2) majors making the wild path service. (By your of sub-train in (2) takes presed. (pt. on.) (b) then street in he will. (c) of presed presents their path valued to a vide copy of and meditions. (b) they delay that pion; (b) medials: (c) their sub-trainers (c) (b) for the pion. (c) for the minum value of the c this reduce (b) of sublequents.

M. Shaper of profibert plane.—() the residual the three no ten grand degree. (() The long, shape nucleosed, which rives very partially and has little at no content, profes or which is ability that pipe. The summary and the creates the behavior of the first, pipel and grading that the set of the order should be profession, and painting that the set of new short handing the said and hap it mostly in the order profession from the content of the first that the profession of the first that the content is set of the first that the content is a content in the content of the

with ill final piecel where they delicately piecel with a sent final of engaging to the Art they delicately be larger in the their Art the Art the Art their their

plant from 30° to 50° mit the humania. A three this or further study extract the feather study extract the case where the fact that the feather study is the case. A feather study to the consequent for the recording but from a case and for the case of the case and the case of the case and the feather case of the case and the case of the case



Fig. 91 - Farfared gloved had through the newd properties and continued the furne size or lick by analitized size. We find of the latter in participants the old of the latter size up and not be positive of larved such regulates in exposure.

All. Depth and width at house. — There is a general visition between the width of the forces after and its depth. In general, it may be said that this ratio is aloud

twe in width to one in depth. The greater the depth, the we in which to one in depth. The peaker the elegth, the lean is proportion, may be the width of the furner thine. On they will in particular, there is also a redship to, there is depth and moritions. A west sail chealth be placed more shallow, other things being ought, thus a day and, the houses this probling testion is less. On a day and the depth should be increased, in solar to increase the paldepth should be increased, in relate to accrease the pal-vermation. Containing these problem, thus, it may be said that if a clay sail areas be planed when how very, it should be planed with a said plan and for as shallow a depth as in permissible. But on an averadry will be appeals conditions should be failfulled—that is, this se of a steep multiform and for an increased depth. Takewire, on sandy sod, where the aim is generally to compact the structure, this may be furthered by deep plowing with a storp coefficient when the land is over-wet. 476. Flow sole.— In connection with this place of

ATT. 1998 WHEE.— In connection with this price of the enlighet it is impressent to consider what in other offi-the "place sale,"— that is, the soil at the bettom of he factors, which learn the weight of the place and the tran-pling of the team, and which under a mathem depth of pluring does not become bosoned. In sky soil, sape cially, if gradually becomes more compact, developing in time according of a land, ou character, which is their mental to the circulation of air and moisture and intemeanth in the devolution of all and entities and inferent with the postation of place took. Consequently, arraying all deep placing, or even substiting, in result materials to break up this contentable said structure. These is been takeny for the older place the deposition of the finite of the content of the finite of the content of t

so. The nior mitter on a mired in each a say that items be leaded on other the sight are the stag. It is account to amount of a side, in lade, and by a participal fill the each is to do to the one of the each of the points in the plane of the point in the plane of the point in the plane of the

poud.

Set. Counting rabbits. The overalory burster of the pion is to come words, measure, and rabbits that have be on the surface. This side the turing pion does very offentively. This rating set therity of the will, whichigh counts in behindred by several attachments, such as colores, jointon, and drag chains. There

we seen layer of whites. But of these are standard to the force on the short is now the name to we the force are the force for the force for the force of the fo

We detail pire — Then is a thirt type of you, the models should pire. Then pire at this high most is break upon the break which make it is break upon their break which make it is break upon the break which make and profile make the pire. It to cause anothly if a make a position with an expert. It to cause the another which we have break it as with lawar to have it is not pine. It is also make the a week it as well having a whose, but of break are a break of a wide having a whose had been supported by the wide of pinests, as the power may pine you printers if there are it as east. At a quantity to the pine is a common if a break is the companied by the wide on the shadli pine facility in a common it is a common if a common in the pine is a common if a common in the pine is a common if a common in the pine is a common if a common in the pine is a common in the

which which is batch spits, only to the days of pulling the shade, or the transfers of pulling the shade, or the transfers of a containing of pulling the shade, or the transfers of a containing the shade of the sh wise with a stirring action which losers the structure and suits of week, and Gaustight legate owers mishiel. Howover, the active is primarily a starting one, and, in proceed, it is anoth shallower than that of the plane. One impor-List much shallower than the of the join. One jump that the shall be also in the shall be placed for the shall be also in the shall be placed to the shall be also in the shall be placed to the shall be also in the shall be also in the shallower workfare. Anotherly in this two is the shallower workfare. Anotherly in this two is the sharlower thanking the placed, placed in the shallower than the forther problems of the in proprietted, and I should be not all shallower they are promotely, for all out way be made to the shall be also in the shall be problems. It is in profit pointed, and I should have not driven they are promotely than the shall be also in the shall be promoted beginning the shall be also the first and the shall be also in the shallower that the shall be also in the shallower that the shall be also in the shall be also in the shallower that the shall be also in the shallower the shallower that the shall be also in the shallower that the shall be also in the shallower that the shallower that the shall be also in the shallower that the shall be shallower that the the need had.

we see too.

\$50. Quinstees project. "There is a post wordy
\$50 types and judicine of collisions." Firey may be
divided into large devel from and small shoot force,
and the dude-but from. The first type has a few con-

EL HOUR - DEGLESSION WAS NUMBERS.

paratively large showeds not refler for quart, which rigosusely two up the south to a constraint be depth and know, it is large ridges. There is a help of a tablem strong and the leation of the continued part in his is hard ridges. Such implements are now much low used than they was broardy, and any the continued to regular in manuscrithe use of the plane, when they working without turning



Pot. 18.— Opposed authoritors (II), wheel has, or hand probes calls relate, with orbitalistics; (II), orbitalistic multi-look, one have enthrolook, with time-book haved beliefs; (II), two-being spirits for their authorities; (II), two-being spirits (III), two-being cliek authoritie;

is duried. Size of the short loss over its critical thing belong to the type. The size had doubt short down a country root to the same injustment. The soul above clusters we may promit you. The soul above clusters have may promit you. The derives in our of stored is made up by the property of private like large belonging type in our short in the facility to try of strongly and tribinally. They are not made the final above the six of the six of the six and the six of the six of the six of the six of made words and the terminal of a time with made in the six of the Made and the terminal of the six of the Made and the terminal of the six of the six of the six of the Made and the terminal of the six of the six of the six of the Made and the six of the Made and the six of the Made and the six of t

one end primition in internalism with rendestion and mode when the featured is now extracted. The chiefs of chiefs are served in a standard of the rections paids, with a standard on it is not chief in the rections paid, with a standard on it is not chief in the rection paid, with a standard on it is not chief in the rection paid, with a standard on the rection paid of the rection paid of the rection paid of the rection of the rection of the rection paid of the rection of the rectio

to the small come.

Cultivators may be constructed to till our or more mass. of a time

861. Lorder and harrow types of collection (Fig. 71).
— In this group one the spike treth harrow, the morthing harrow, the spike-treth harrow, the disk barrow, the spike-treth harrow, the Active and Mocker purific, harrow, wenders, and the Active and Mocker. herris

The solve-troth larmy is essentially a leveling region ment, adapted to very stallow cultivation of loose suits. neer, segment to very various consumment of tense such this also sometimes of a cleaner, in that it judes my surface rabbids. The appragatorsh harrow worth more deeply than does the spike-footh harrow, and can therefore be used in many solls for which the latter is not subspeed. In working down clothly soil it brings the longs to the surface, where they may be crucked. The disk harms depends for its primary advantage on the conversion of alting friction who militar friction. Its deaft is therefore less for the same amount of work doze. It has a vigorous pulsering schie similar to that of the play, surpaying shovel cultivators in this respect. The disk harmer is not subspited to stony soil, but the courted forms use as effective on such soil as so sail free from stones, as long so the stones are not large enough to collect in the implement. On the other hand, on half full of course manny, nod, and the like, the disk harrow is the mate efficient. The spaling barrow (crisavesy disk) in very little different from the disk harrow, except that it (also hold of size will none couldly. A recent attempt to being about a high depec of pulserisation, and with greater uniformity, is represented by the durhlo-disk implements. In these implements these are two sets of disks, one set in front infection table for the sets of ricks, can set to from of and dipagged with the other, and the two adjusted so as to throw the soil in opposite directions. Wenders are a multiful form of the spring-double for our, adapted to shallow filings of frishle, early worked

sal, when the six is to fall weeks not made a tive surface model. They are take and or fixed with landow, and therefore have an integrate the between cubvators proper and harmer. They are used used for interfillage of young copys.



For 21.—Types of layers: (i), quintants; (i), gring and, (ii), smaler, (ii), shalled the Jook Que the first titles are set offer and only poly; (ii), quality, shall, (ii), almos. (ii) then bring to be estimated great of included.

The Arme harms coming of a meter of troited blades which cut the self and such it over. They are most result in the later tagged of principations on all richtering her harm street. The Bellech harmy is a resided from all this ready permanents. It is exceed all the later of the self-charged permanents are self-charged permanents and the self-charged permanents and are repetitely adapted to breaking up herd, lampy and

In this perfects it may be considered as indexings to the first seed of spinners. We do create to the construction of the construction of the construction of the construction of the construction. But the construction of the co

ardinn of the field.
There is also a very considerable ellage action in more horseling irreferences. The potten rigger, for comple, very throughly backs to good calcitates the sell, and high prices is no important more for the personal high globals or on important more for the personal high global of corps following the potten crop. How howevers and both becomes also have a similar soften or the soft.

88. Pattern and crustern. — These may be divided into ten goonsy. — Once implements that one to compact the sell, and those the primary purpose of which is to potentiar the sell by creding the lauge. Both kinds of implements have swetching of the state union to the sail. That is its say, my implement that compact the sail does a certain amount of creatings, and, convendy, any implement that creates the sail does some con-

any implement. But enables the aid has some compacitive.

16th Relines (Fig. 17th — The regar of the first grap, is the mild, or bond, while, which by its weight with a large the mild of mild mean heights and to month, the meltine. The smaller the distance of in proposition to a small, the ground is the development of the milding the proposition greater. As consider, the milder is middly in development on the charge of the interval of large bearing nature. Laurys we paired into the soft

tage bearing strates. Litting we passed atto the soft such make that consider. It should be measured to the this should be mediuted that there is one considerated the make the considerate that the should be shoulder. This is on this coil in which a worth his developed as a result of light middle. Here the miler may brook up the versit and tratee a finity effective and makes.

middle. Model from all miles states from goder. Det for all find implaced covers of a some of their hill covers, Valgagi (mil., sign part the for all one part is state, brain; the could be lossed to the content of the could be lossed to the brain of the lossed to the lossed lossed the lossed lossed lossed the lossed loss droughts. While compacting the soil, this implement braves a much.



Fig. 75.—Type of perken and pulsarises: [0], said or larvel value; (0], recognized sales: [3], coulder and subcarious posture; [0], her value.

The Cold creations. The aim of these told creations in to break up longs. As to more of sellow, fore we would form. The correspond until the far reful can be found until or control as the resident of the reful cannot construct their works in Series and are spon example to that this first earth in formed up between the hearing waters. They are very definition, no modeling improval one comparatively for eight. They have very first it besting offset foreign and these many first in besting offset foreign and them.

have very little broking affect further than the brooking three a litery.

The planter, thus, or float, redwally se-called, on into mentality of a broad, heavy weight without both within is chapped over the soil. The higher see relief under the offer and ground beginn in a macroe with weighted the control of the control of the control way effectively notions there size. At the same force the soil in trivial, moretised, and, to a degree, compacted. This implement way well be used in the place of the pole TELLOZ .HRI

a s photos; on may certain It is controlled in page from 1868. Affected tiliges — Modern tiliges to the two-finests. Affects is the inflation, will are industrial till in the control in the transfers. The control modern till the time control to the control in the control of the partial control in the control of the control o

CHAPTER XXX

TRRIGATION AND DRY-PARMING

Exposerred to the application of water to the sol for transfer is the approximent which a few set or the purpose of gaing copy. It's imaginarization for the natural precipitation. The quantity of water applied and the time of application must therefore be electrated by the character of the mirfull.

Self-Relation of integration we residual.—The limit of middled where integration because to economy is not a familiar.

which with religion became enterway and a faul Value of A. Propins of singuita Parisis. No Vot. 401. A Propins of singuita Parisis. No Vot. 401. A Propins of singuita Parisis. No Vot. 401. A Propins of parisis Parisis Parisis No. 401. Propins of parisis

meent. Integration is product in all posts of the world
—is these regions where the natival is fill and 60 inches
a years, as well as in these regions where it is only 30 inches
or less. (So. Fig. 72). The real of inequality is determined by (4) the first when the substantial conten(6) the way in which is course, whether in small or

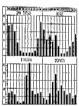


Pt. 12.—Degree showing the refer to of detailedon of nightle scanning region (Form. Arison), and a hand order (Befalls. Mar York).

They consider. (2) the nature of the salt, (6) the strangeries and real recovered, and (5) the nature of the salt proposed of the salt

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receive between 20 and 20 inches. Deep on frauction has been the sich perion when the mixthall steps have 10 inches. Gen Eq. (23) inches architecture to contrally to the contentry but they are presented upward and the best and the description of the contentry but they are the contentry and the contentry in the contentry and of returns to the effective time the contentry and which ented quite and to the cores a circularly some distribution and which ented quite and to the cores a circularly some distribution and the contentry and



For 74.—You type of rainful. The diagnoss steer the distribution by mortics

It has been entineed that the total evaluation water mappy is unflained to impace only one-to-th to execute of the properties of the earth's number in need of such treatment. 88. Street of circles find— In 186, V_{scal}) related to tool area of load inspect to (1990) to use. Not the lobe to produce to (1990) to use. Not the lobe to produce to circles are related registly for lips do life unit, or it is remarked to the fraction of the load to use all load impacts in the 180, 19000 each. It light, it handow, all not loads, as well as in the little store, the propriet for registration-land to the 180 of 180, as well as in the little store, the propriet for registration-land to-land suitable resources to the 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 180 of 1800. If the little documents to the store of 1800 of 1800. If the little documents to the store of 1800 of dute enterprises for the provision of natur more coder near to cover a total of \$1,000,000 agent.

way in over a total of \$1,000,00 acro.

688. History of irrigation.—The position of irriga-ion is very materia. The very earliest meanth of the peoples in the subsysted the Nile and Buylanter sives, in Mrien and John, continu large irrigation works. in Africa, tend, Asia, questions large, arrigation between In Clinica and Lefts, also the practice is very fell. The remarks of ancient within for impolarie office ancien-tion modern arginare by their nise and excellent of con-struction, correlating the healthire that were consider-tly early as 1984 in a se withful lake they may be in in-terior and the construction of the commentation of the commentation. As easy as 2004 at the exthesis size may only in Vi-teriference way constructed in Egypt, communicating with the Nile through a casal. The Great Leptinia Canal in Clima, communing the Househol River with the Yangdae, was 650 order long and had mental halos in the Yangdar, was feet online long such mai meast, many in the source. In Pers, Mexico, and the surfamenter Hulder Sales, three exist recursion of very catencies irrigation works off years cotquidy. In Argentina large irrigation canals may still be travel for from four to five braided

1 Mard R. Swigsten Sociolomic and Postics Accesses Optiopolis of Systemators, p. 420. Non York, 1991.

6% ANTA: PROPRETING AND WARACRHEST

with a fix by Veck River valley in Arizon, remain of the differency, which were remained into before where the differency was seen as the content of the System of the Sy

In modern times the great Assessed darn has been built on the Nile River, and with the remediated reservoirs at is designed to outsel the dars of the river and provide mater for irrigation. It stoods so an enough of present-

what is righter. It is all to an early of sproach by righter foreigness and results. We have a proper special foreigness of suggest product in the limit of the limit of the substantial product in partial righter was the facilities behaviors in such as the limit of the limit by a substant and limit process. We are all the limit of the limit o

"Forber, R. M. Irrigation in Anisons. U. S. D. A., Office Bron. Stat. Sci. No. 235, p. R. 1811.



entended rapidly in the western United States. It has approximately doubled early fan years at en 1878. Innigation is employed somewhat penerally throughout

Irrigation is employed somewhat generally throughout, the region west of the little meridian, which must through control Notwells. With the exception of limited area, the armost control is feet than 25 inches; and over largeareas in its less than 15 inches.

the audit could be to the Si mints, and over they must be interested by the second of the second of the second of energy that the second of the Si me device of the second of the second first Galactic effect of the second of the people is may automate and other may made the Galactic effect of the second of the second of second upon a second of the second of the office of the second of the second of the other people of the second of t

"Thinnesch W. S. Coron, Cloyder IA, p. 421. IEA "Street, A. R. Irripation under the Corp. Art. U. R. D. A., Office Rep. Res., data: Rept. pp. 451–458. IEA. in, exhibited by Redgal far Jane 17, 1860, porning for the construction of irrigation works with the mo-celess from the sale of public bands in the self and mai-

uni state.
These several provisions and their attenuive growth

with these treatment provision and their examenic qualitation of the security for the control of the protection as interested to evolution to present the record of the protection as interested to evolution to the product of the control of the product of the pro

probability of the exempent of those in the outern United States is about in the following table! of rainfall recents for the tea years from 1961 to 1969, inclusive:—

No.	Jemes Arms Regnas	Parame pay frence on and new and rece land or Baca	Dan ver
loss lya	20.39	25	110
United Wagners	2476	23	182
Vitaland, New Jerser	47.47	48	252
Columbia, South Carolina .	0.55	42	518
Petro, Alahama	50.75	60	728

(a) He days regulated until whiter a fifthern-day period with less them I find of cale.

not to the Paragraphs on all the polycets is seed and on soon to say it we forward seen. We fire Records seen. The families of brights enterpose by the Poles Governous thresh, the Fallandian Service is the Fallandian Service in the Fallandian Service is the Secondard as the proposed to the secondard as the proposed of secondard as the secondard as the proposed controlled as the Poles Governous and Committed as the Secondard as

*Wilson, M. R. Pontilidae and Nord of Supplemental Infosition in the Statisti Septem. U. S. D. A., Tanchook, 1941, pp. 189-120. Also, Took, R. F. Impation in Humil Profess. Austines Optiopella of Agriculture, p. 487. New York, 1951.

About conthird of this area was imposed at 1966. Many About northing of the new new impact in 1985. Youry of the share and can be involved one of singestons rise and nonestate form at both engineering. Often havin-electric power in developed it large names in the passage of the natur from the receivable to the fields where it is to be used to grow come.

to be used to grow corps.

600. Logal, economic, and social effects of intigation —
The yearsies of intigation on an extensive code has passed
important changes in the construction of low? relative to water and properly rights and in ownered and social

rate of preets gets and in ownered and said explaints.

Basic spits in cleans and this need tends containing, for ground street in proceedings, for ground streets ground, without preeds in the preeds of the preeds of the preeds of the said and improved below in the sign of the said and improved on the preeds of the said and preeds of the said and the preeds of the said of the preeds of the said of the said and the control the said of the said of the said and the preeds of the said terestry of the use of water for projection has conducted

Mind, K. Ierquies Entletters. Her Feb. 702.
Mark, K. Ierquies Sudmitter in Debruit Geschins.
Institute Opinquia of Agriculus, 1958. 40; p. E. AreLife, R. H. Theoder, M. Leetter frequies.
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Holland, A. L. Holland, A. Areitster, 1958.
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orden prindippe, such as the principle of trainment density, an extensive quant designs quarter. The protocols of the second is finely that a constrained a finely that is constrained to the second in finely that is constrained to the constraint of the second of the constraint of t

A disc recent is question, tente the people and in the opposite of the opposite family in a large cuts. The best is objected assessing the opposite of the out, and the objected assessing the opposite of the opposite opposit

of retexprises.

64. Divisions of irrigation. "Two uses parts make up the precision of irrigation: the fact is the provision of water, which is essentially an emphasizing problem;" the versul is the use of water on the land, which is or-

"Wilson, H. St. Irrigation Engineering, p. Sch. Stor York, 1900.

sectionly an approximal problem. It is important to minimize this clear distriction in dealing with the pro-tice of impairin, specially in the larger support. The rest functions we happy serviced by influent proper of man, and they involve which offerent proper of man, and they involve which offerent topical smooth only and shall. The approve tend on in regions options is officially use of the voter on the lated in the production den

All Sources of work to helpide — The protein displaces in the fingline in cliquation, a too endquering with the fingline in the details to the first limit to the confidence of the confidence of the first limit to the confidence of the first limit to the great limit to the confidence of the first limit to the confidence of the first limit to the confidence of the first limit to the first lim 586. Sources of water for intigation - The praction

perpara.

189. Crasia.— The correspond of the seted from the period of apply to the piece when it is the tend crasis with a few constraints before effects on the result of the tend from the constraint of the co

articles present which is the provided of organciani, and capation. The least of water to be using a decrepation. The least of water to be single to orange to provide a decrepation of the provided of the

*Tod, R. P. Irrigation and Trainage homologister. U.R.D. A., Office of Step Sta., Jun. Boot. 1964, p. 36. Alexa Mond, R. and Bishonerry, R. A. Lining of Disdate and Sourvoirs to Thermit Bengap Lones. Chill. Agr. Eup. Sta., Bul-Na. 188. 1887. with a channel that is deep in relation to its width, and only reduces seepage, but also, by pennitting the rapid flow of water, reduces lose by evaporation.

At the farm on which the water is to be used, it is dis-

tributed in small field laterals which are native on the higher ground. Presentions against suspays and roups makes should been be taken. The to slower new is toward the distribution of the vestor to the fields by means

men men men men in in interest per desert for definition of the same the Stable in men and designated pins with matters at when it he hands in men and desert for part of charters. The mengenet of the test has been de allement of the strength of the same three for the parts.

The same is the same is the same in the sa

this must be removed source numerous, v, beause differing at applying swinz. —There are fore granul methods of applying mater to the soil. These are (1) quartient appays, (3) anti-impation, (3) facoling,

are (1) generation spaces, to be seen and (4) formers.

550. Overhead uprays: — By the overhead uproconstant (Fig. 76) the wests in deschaded in pipes under a pressure of feety to sixty pounds and discharged from a series.

*Parties, S. Minibule of Applying Wales in Corps. U. S. D. A., Versional: 1998, 451–282 (1988).

of number. Several types of number are employed. The or common. Several types or nonness are empreyed. The amount of water that man be applied in relatively small, and consequently the method in used existly in humal regime to amplicate a settler high sainful, in the gravell of emport large value. It is used in the growth of death

of cases of large soles. It is used in the growth of each and small find crops now the large waters often. The advantagement of the system access.

I the value is conveniently applied at the desired pools. I the growth may be used on surveys land and without graparation of the melities. I There is no waster of body to distance. (The application of the solet is solely controlled by widers and by the numerous the solet is solely controlled by widers and by the numerous the solet is solely controlled by widers and by the numerous the solet is solely controlled by widers and by the numerous the solet is solely controlled by widers and by the numerous the solet is solely controlled by white solet in the solet is solely controlled by white solet is solely controlled by white solet is solet in the solet in

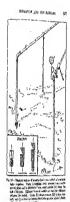
water a only materials by when and by the numerous of the spice.

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the sed and perferated in such a very that the voter finish an order and is distributed by the capitarity of the soll and by natural gravity time. In gravitances and where shallmencoded annuals are grown, lines of draw tilk on emphysel, the water leveling out at the joints. Onrequires, see votor rengi de la cui puiz co-ficione spice haring so oper sean or perforatione base been used. Autober mediad employs a porous central play which from a little shore the supply space. The object of the last-named metalod is to avoid the common difficulty from the estrateously relate into the piper. The piper must have a very slight grade in order to insure a



unifical distribution of votor. They operate noticitie or so present. The greate has a method of actually rest than extrapor, but in precision three we addit rest than other by its disabilitations. The advantages are:

1. The speer is presented. 2. It is no remaind of works. 2. There is no injust to the objected positive of the only. 4. There are no obstructions at the market.

5. The step method of only is reconcept. 8. There is

A. The deep making of cours in associated. B. There is new little expense for supervision of the distribution of nation. J. This assummation of shiftle levels on the surface of the only by compartion is reviewd. B. This system may sensetime to work or a means of distribute also.

The disadvantages were.

1. These is a storng trademy for the piper to be diagod
to the contens on mole, represely whose permand cope,
are grown. The permanyling method of disadvantage nature
is integring to method the disadvantage. The store latent enginger of thirds of other in they of these its recessors
to install the firms of piper rear tappelier, adults made.

to these two means appeared to shallow-road around being expense.

The method is best adapted to shallow-road around crops, and lend adapted to creducht. The segage of water from the pipe strongs the govering notes, which were filled to enter the pipe, break up into many small flows, and day the system.

on thely to extra the prope, bents, by a lot many such them, and they begins the related this purhous. This was not confidence used to present our or good buildraft at the shot of the price and or good buildraft at the shot of born bent or he by a relate incorrious manage, the nature may be infrarbored region from the pipes in that it becomistion on this hast substrates, and particles the sulf, they have been quitted peopled. These is them to feature of the work to order the pipes, and the present nature of the related to order the pipes, and the present nature of the related to

DESIGNATION AND AN EASTERMENT (M) the pipe in the foliate section of conditions cannot be settled for extense of conditions cannot be reduced for an extense of conditions cannot be settled for the pipe of the section of the pipe of th

The del their changing of the selection for the del their changing of the selection for and learning on the selection of the

NO SOURCE PROPERTURY AND MATAGEMENT

that you is studied within such as the and con-bertion.

It displanting source—7

In displanting source—7

In displanting source—7

In displanting source—1

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large. There are two main types of flooring. In the flast the water in turned into level checks or bloobs, where it stands until it is absorbed by the soil — called commonly it starts until it is its entire by the soil—collect consoning the stability of the country type the rester is distributed in a moving sheet or a series of small rits, from field supply distribus—collect open-field flooring. This mothod is said only where there is a moderate slope

to carry the water.

In closel-liebt, or check, flording, the land is divided. into blocks, each having a level surface and surrounded by a lever. The size of the checks, their shape, and the height of the leaves is determined by the contour of the had. On a slope they may be very irregular. Scall and, can stope they may be very irregular. Small checks of one to there were one most successfully int-gated, but areas of livestly or more sures have been floodly in one block. A firm of five in seven segmet-first of water is necessary in order to make the method thoroughly successful. One man can project from first to twelfy acces a day, depending on the size and form of the shorts The lower may be permanent, as is untilly the $e^{i\phi}$ especially in mediene, or they may be thereon of f^{ϕ} each optication of exter: The permanent leaves f^{ϕ} be head and for an that they will not interfere with homeoting. The method of feeding in foliage into dease. A phose of shock flooting in the harts method of inj-gating contents, in which result, dushow forten are forest around such time and expanded from the crusis by a block around such time and expanded from the crusis by a block

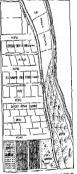


of earth to percent injury to the generic word. This method is used rather extensively throughout the and regions.

In the open disk, or hind, the risk, it to what it is good in their which are confluent as the content as a node that good, and it intered to the in interesting it is attent of the or in the content in

which leaves — In the former uptime of singuine.

Mr. Former — In the former uptime of singuine, the water is less of the order of the couple of the order period of the singuine points of the couple of the order of the singuine of the order of the singuine of the order of the singuine of the order of the order of the order of the order of the former order of the order or the former order of the order or the order or the order of the order or the order order or the order or the order order or the order order



THE SOLES: PROPERTIES AND MANAGEMENT

stel from the largers by percelation and by capillary movement. Percelation causes the accumulation of water under the upper out of the largers; capillary monoment distributes the water laterally as well as flow neural,



Bu. 71.—Dispense aboving the relative rate of moments of mote time projection (comes into day leave [a44]), and much have (right), after different parties of from.

and its rate determines the distance between the immon-The diversional immension, in such own regist than the listent movement, and both are very incepture, depositing, or the nature and functions of the sufficiently feel theories are relatively where topother, to give general uniformity or distribution, to ever, positions, because product registribute, and or upon of simple contacts, without in placed in each row, or at beast in every other row as in

"Witten, J. A., and McCarphin, W. W. The Movement of Water in Integrated New York Apr. Soy. Soc., Sud. Mo. 115. MCL. May. Logistope, N. H. Distribution of Water in the Scale in Person Legislates. U. S. D. A., Olivo Styp. Sta., Ed. No. 503. 1988.

smelting the tree in strawbaring to order to permit

suches the two is developing, as after the permissioning.

To exclude these two must be some a placel behavior and be made the two and a few some a placel behavior and the most like the persy test sufficient and the most like the permission is placed on all the size in the permission in the contract of the former and the permission is the contract the former are transported and most like the permission in the contract of the former and the former and the permission in the contract of the former and the former a

Fo. (8)—Diagnos the tity (the diffuse advanced water from the end from a drag (big) and a science (Airt) inspires forms. Note the militire extend of unders rel evice the trap town. A drag model and drag fringings furnous red in the conjumities of problem.

Foreign, S. Europealine, Loyer to Direction and Wales Perguamental of Carpel, U. E. D. 4., Office Page No., No. No. 177, 1980. 25

chiest, and the bitton of the furew should estual teal below its base. This will also the other to diffuse historily rapidly, and the drop dry mich release the extent to which the unifore because mind, thereby concaving motions and reducing the means below of allafe with carbon.

at the surface.

The application of water to the soil is irrigation must be gooded by the principles checkeded in the discussion of the physical properties of the soil, and its relation to ministron and the centrel.

memoral and in disease.

See the second of t

In the field, water is commonly presented in cense of depth over an area. An area-lost is the quantity of water that will cover an area one lost in depth. An area-inch is manifelfith of an acceptort. These are very convenient comes houses of their disclosures and relation to the continuous wided of define printies. Usually as their was food of white relation to the field of the trace. Nation in references are married to recovered in the relation parties. The continuous of their are the west and the form. One (Eg. 20). The we're are the west and the form. One (Eg. 20). The we're



Mr. 10 - Short was using for and a lightest win cost in bisense ing the first of integration ratio

trimple laters to give to come, deficients weller, and in all the consument of the depth and later forms. In the consument of the depth and later forms where the firm and the later depth and the schedule of an elaboration to a great later depth and the schedule on setting the source of the schedule on setting the source of the schedule on setting the source of the schedule of the

Coppeter, L.C., The Monomination France of Page. Compute Agr. Exp. Str., Ltd. No. 181, 5th all. 1811

con return prevention and accommendation of the contract of the circumstant in the contract which further a few dates. This is used in titled as the first of the circumstant of the cir In very lost venther it may be reduced to two or three unches. In late fall or early sping, when the still is uncompled, the application may be relatively larger pricialed the sell is dry.

It mesire insignation is to be availed. While the total

yield increases with increase in the application of water parti unreases with acrease to the application of water up to the national point, the quit protection observed. The following living table, calculated by Wishose from period yields of when differentiates this point:—

	Torm (expenses to York and/o pro-						
	Loop	1 eess	Zome	41011	8,330		
Greiz (Loskele) Bizw (postale)	47.51 4233	91.42 2908	130.59 10656	164.15 13034	225.F		

Widner, J. A. The Production of Deg Master with 16-bross Quantities of Irrigation Water. Disk Agr. Rep. Sta., Bol., No. 116. 1915.

Small applications of water accelerately next offsized. Up to be limit there in proposely, the non-constructed found which the key of the piled ones.

All, There is supply were. The left from a supply water deposit to a large schola or the returns in balls of the piled of the piled of the piled of the strongly material and the piled of the p application will have tree mode before fixing the ground. For suggest beefs and other crips planted in now, it is permissible to brigate invadintly after scaling. The formations of a creen is to be avaided. After planting, water away be applied at internals of two or four needs, or when the mill has reached the stage of dynam at which disgrish capillary movement occurs. The experienced irrigator becomes very preferrat to necessiting this one-driton. For grain and fungs trops, the mil simple be well orbot. For grain and mage crops, the not around the even monitored when the cost approaches makinds. For old-folia, impaction may be obten should believe or just offer harmest with good results. For not crops a relatively dry condition of the soil at maturity is preferred. The stems in true for leave, and the logo application of water. same in the three years are septrally in the enoised because the new need great is bleet in 12 mine-billed freighten in spring, especially at because time, in to be avoided because it interferes with the setting of fruit. Then or two discrept impactors in a season or usually sufficient for the growth of trees. Small fruits should have plenty of water at the naturaly of the cop.

Where water is available in late full and in winter, it
may be caption to the out and stored there for our during

the following suson. Investigations at the little tall in *Wildon, J. A. The Norms of Winter Problems in Stell, Utah Apr. Esp. Stell, Ed. No. 1948. 18, miles Partentina Ann Machanitari In section that mainten use to effectively stored in the and in school of our clear right lets and be easily used by one the scate seam. The third meant of where the supposed people mainly time. The following lets, the supposed people mainly time. The following lets, the complete people mainly time to the supposed of the solid. (I) the solid is also and described the solid. (I) the solid is also and the solid. (I) the side of the solid. (I) the side of the solid. (I) the side of the solid. (I) the solid is also and the solid. (I) the side of the solid. (I) the solid is a solid in the solid. (I) the solid is solid in the solid. (I) the solid is solid in the solid. (I) the solid is solid in the solid into the solid into solid into the solid into solid into the solid into solid into solid into the solid into the solid into solid into solid into solid into solid into the solid into solid solid into solid into solid solid

has been the eard took that to the effect relation to the edge.

The told manned of order to the exploit of invegation
should impay from five to twenty indexs, with the tembers
toward the house type. This means, a day of 200 to
38 means a stand-should be a season of skey days. From
note to the regularization of whese to recording round. The
large to be plant and the observed to more griden, the larger
to historical anglesia of wheter may be, not the lower
the market of application.

the marked of explosions.

60. Commercian of monitors after imposion.—The conservation of mixtures applied by imposion should be provided for whenever practicable. Compa plantal in one when the mixtured seasons that and day samply not to public. As suggested shows, whon the former methods are propagat the thrown should be shown, when the former method was propagat the thrown should be shown, with an all yet and part of the numbers and the state. Consider

"Widthon, J. E. Triangles of Impulson Practice, Chapter XVII. New York. 1846. with this, a much of dry sell from four to eight inches deep should be maintained. This is a protection against two high a temperature in most and respected by shale, as well as against loss of maintains. We service of the gold about he kept as exactly level as possible.

Grope that are not planted to mys, such as green, may he coltinated with a fire-tank horses until they seach a height of firms several inches to a lost, at which stage he effected with a devent horse with they with highly of their word is to a long with object of their word is to a long with object occurrence from the with a long by merchant of the control of the control of the state of the control of the control of the with much lept a new or the melling way to the part of the control of the control of the control with the control of the control of the control of the large to the plan, with all simp vegets to the control of the control of the control of the large to the control of regarded to the control of the control of regarded to the preference of the control of the control

"Rotter, G. W., and Ester, M. N. Stenger Disposal in the Defined States. Were York. 1984. Lim., Edite, G. W., Ros-tes Longolius. U. S. Okol. Horovy, Water Stoyly, and France. Papers, New S. and 23. 1987 and 1888.

112, MOLE: PROPERTIES AND MANAGEMENT

Angeles has a large from impated with severy water, angues as a tripe non improve with severy water. The same person principles provide in the use of water at in armal integration practice, recept that the still may become charged and had from the accumulation of wild material, expirally where the idea of disposal over-shalmers that of efficient uses. This practice is used chiefly for the production of hay and forage.

Description is religion to religion to only a send port of the certil's arches which mode such touch must. The remainder of this water arch this place and deficient rational most to think, if it is, the deficient ration of the certificial, if it is, the place are required to easily the remainder. The certificial could reproduce the remainder. The certificial could require share and confidence in the certificial could be carbon which the certificial from the certificial from the checkles which are recognized as pool practice to recovere moisters in zero, luminities.

se goor product to concern manager in more manager regions.

Dry-furning a based on the principle that the production of dry matter in copy requires only a small part of the water which may be used in one way or another in its growth, and that a large part of that water is lest by se-

greeth, and that a large part of the water is leading per prised, and I. D. Dyman, The View. 1810. (Appendic intrinsis with prised in Prised In Prised In Prised Completed, 3. W. Bell Colorent March 1820. Completed, 3. W. Bell Colorent March 1820. (See March 1820.) In Prised Intelligence In Prised Intelligence In Intelligence Intelligen

Intelligence and negroscopies of the points by concentration of the points of the points by concentration of the points of the p

THE SOURS: PROGRESSION AND MANAGEMENT

the substration as much to possible by ollage it solder to horse in copiling resording. The sold of the treast and, of court, official or the statum of the soil, and next sliving the most formation. It is substrained to the body of the sold of the substrained to the sold of the sol

on the town post of the interne related is in the order, the packer like in his object rectors with the paleous and thereby statis finals, before regulary convertion. After the entry large of the same just of the Samour, a that starble in monitoried on the sandow. This should be all matters of part in the seasons when takes are likely to cover, and it of worselest grates of eight during the sky period. These on these indees as unasky a sufficient depth.

freque. Writes capitalism of the principle of mobility on the surplest. Lost may be desired below princips that is employed. Lost may be desired below princips to the surplest of the princips as the surplest to the such as except in mounts, the hald which be placed to the such as except in mounts, the hald would be placed and the surplest of the surplest than the surplest of the surplest than the surplest than the surplest than the surplest that the surplest than the surplest

* 615. Attenues cropping. — Where the reinfull is 600 lightly a single season to permit the photocolour of a profit-

able crop, it is werefund the practice to cultest and store the minful of two season in the mill. This is the system of allowed year cropping. In the intercenting year the sail is correctly fathered and malched, to held the shored mostere. Dut such language the surge of available mosteres. Dut such language storage of available mosterum in penaltal too been rient; demonstrated I undermotion is mobile to her simply demonstral regular dynaming anothing set due to income of regions pulsers, the set of a remixed despite is quasiful formable for the demotion and minimum of a set-cial that mill, and the remines all proper that when the horse brinks provide sections to be admit all stated in the case of the section of the section of the section of the central prime is much the proper discretion of the demoting pairs is my desirated upon a grown among an in the prime a grown among an in the prime a grown among an in the prime and the proper all prime are my in the prime and the prime gripm division to this.

meiors abyeties to this.

M. Drough relation crops — For proofs such dis-Mile Drough relation, or one synthesis which have a low meistere requestions, which are not seemed, wherein the service feiting cut which have a likely they not system. The service enter in the first should also deall the access services. Our in fairly attributery. Where, bades, and didfu are found only then ways. Despite accessive varieties of these ways on their metals. A ways, and attak are invente dry here weige. Describ-ministent varieties of these copys are being saught. A rotation is desirable with suppose the seal as little as possible to emporation, and pounds continuous molda-ing with the minimum of pleasure.

Athinsee, A., Regions, H. O., and Geneber, A. F. Day Paras Maritane, Station, Merotane Jar. She Han, Sait W. Still, Alberthy, W. W. Sonney, Ventuce in the Stat. No-brania, App. Rep., Sta., Fall, No. 114, 1971.

TID BOOKS: PROPRIETES AND WARRANCEPT

88. Sole associated with sig-funzing — Dyy-housing in distr. chocky executable with impact, being sensitive in a distr. chocky executable with impact, being sensited on the Innaire side size in the Australians of the Sole and the Sole a



Po. 62: Amount sentern limited that a whore dry-land farming is a cary to proof ord.

Browth as the transport of the state of the country of the state of the country of the state of

on, faceby, and well deprise in cure syntains in the problem jet beed, together with the prise register placed together with the extension of their protection, and in protection of their protection of their protection, and imprince and being processed along protection for protection and imprince in treeven the new disease and minimal temperature of their protection of their protectio mor supply.

CHAPTER SASI

THE SOLL BUIDLEY

This fundam of the self servery is to inventant the motive and occurrence of which is the field. The wide are durated also areas being approximately the same of each limit for some formation and their properties. The bosonial and the areas of each limit for all of self is exported in a density or many, and four chanders and differ courses and applicable the contract of any described in printed reports.

2.7. The simulations of which is survey.—The approximate of which is survey and consistent of the contract of differences in the offlage and contracted in

*Klasifestim, Nonaudston, and Kutimeng for Bules

Falledon, Newsolders, and Tacktore for Indexes.**
**Facilitation of the Indexes of Technological Processing States (Newsolders) and Engineering States (Newsolders) and En

quiments of sole, their cop relation, and their agri-cultural value water necessity the information of the properties of the soil that we shiefly responsible for their differences, and their unwayment into an otherly solecue of classification. The son is to divide the hard into of classification. The sain of a drivide the land into ureas of approximately the same germal character. This reduces a largely an exposition of their properties of self-flagt make differences in their corp relations and manage-ment. It is collect that differences are summers and united, and that some have gender signiference dism self-particular and that some have gender signiference dism

others.

Note may be chesiful from many different points of Solis may be chemical from trace solvers prime or view. The business is goodly goodgood, pumply pigned, or almost entirely decised. Any one of these since in Richt to businesseques for the purpose of the agricultural. The viewpoint of the agricultural soil survey should be such as to seem unit; in the crop relatives of each distinct area of soil consegrent.

The system of charakterium in use must comply us a

hais some continuous of the groups of projecties ren-mental alone. The nonlination released less offered in different parts of the world, depending on the training

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636. Surveys in other properties. - Normal countries. have undertaken some type of soil or agregological stracre instruction sense type on our or appropriageau over. These protype, which these beam undertaken in Germany, Prance, Italy, Dunia, Crest Britain, and Japon, bows armed at a broad practical desolication of soils based on their opticities of values and tillage properties. Several thousand square triles have been covered by the surveys in each of these countries. Colored charts are published to accompany the descriptive records. In these mesys the description is largely gractic, in mode tion with a consideration of the store realest physical and channel properties, whether acceptance and groups? in the field in much the same manner as in the American surveys. The details, of course, are considerably differout in the reports of the different countries. In Germany the maps are geological agreemic in themseter; that is, prominence in given to both the geological and the etop relations of the serie. Their physical and obstical peoper ties are printed out and are used in the classification. Similar methods see followed in France and Japan. In Beginsed the areas of soil use determined, first, by means of their texture; econolly, by means of their con-

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